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Информация о владельце:	
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Должность: Ректор Federal State Auto	nomous Educational Institution of Higher Education
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IP UNIVERSITY OF RUSSIA NAMED AFTER PATRICE LUMUMBA

RUDN University named after Patrice Lumumba

	Medical Institute
educational	division (faculty/institute/academy) as higher education program developer
	COURSE SYLLABUS
	Modern Endodontics
	course title
	31.05.03 Dentistry
	field of studies / speciality code and title
The course instru	action is implemented within the professional education
programme of hi	gher education:
	Specialty
ł	nigher education programme profile/specialisation title

1. THE GOALS OF MASTERING THE DISCIPLINE

- learn the clinic, diagnosis and treatment of complicated caries;
- to form the clinical thinking of the future specialist;
- establish causal relationships between the manifestations of the disease and the patient's complaints;
- substantiate the diagnosis, draw up an adequate plan for examination and treatment, using modern materials and new technologies.

2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «Modern Endodontics» is aimed at the formation of the following competencies of students:

General Professional Competences (GPC)- 2.1, 2.2, 5.1, 5.2, 5.3, 5.4, 5.5, 5.9, 6.1, 6.2, Professional Competences (PC) – 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4

(in accordance with the Federal State Educational Standard of Higher Education (FSES) 3++ 31.05.03 Dentistry).

Table 2.1. The list of competencies formed by students during the development of the discipline (results of the mastering of the discipline)

Competences	Competence name	General Professional Competence Achievement Indicator
General Professional Competence	Being able to analyse 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 (2.1; 2.2),		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 (5.1,5.2,5.3, 5.4,5.5, 5.9)	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 (6.1,6.2)	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
Professional Competence 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.
(1.1,1.2,1.3)	ulugii03i3.	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 (2.1,2.2, 2.3, 2.4, 2.5)	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.

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "Esthetic restoration of teeth" refers to the variable part of block 1, the part formed by the participants in the educational relations of the curriculum.

As part of the EP VO, students also master other disciplines and practices that contribute to the achievement of the planned results of mastering the discipline "Aesthetic restoration of teeth".

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

No	Code and name of	Previous	Subsequent disciplines (groups of
	competence	disciplines	disciplines)
	al professional compe	1	
GPC- 2.1	Being able to analyse the results of their own professional activity to prevent professional errors therapeutic failures and conflict situations;	Bioethics Local anesthesia and anesthesiology in dentistry	Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery 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 (Prosthodontics) Observing and Assisting a Dentist (Pediatric) Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
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	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)

GPC-	Gathering	Local anesthesia	Internal Medicine
5.1.	anamnesis by	and anesthesiology	General Surgery
3.1.	1		Surgical Diseases
	analysing the	in dentistry	Dermatovenerology
	patient's		Neurology
	complaints, making		Psychiatry and Narcology
	a physical		Endodontics
	examination at a		Gerontostomatology and diseases of the
	dental appointment.		oral mucosa
	or and on the second		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
			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-	Formulating a	Propaedeutics of	Internal Medicine
5.2	preliminary	Dental Diseases	General Surgery
	diagnosis and	Local anesthesia	Surgical Diseases
	drawing up a plan	and anesthesiology	Dermatovenerology
	for laboratory and	in dentistry	Neurology
	instrumental	in dondstr j	Psychiatry and Narcology
			Endodontics
	examinations of a		Gerontostomatology and diseases of the
	dental patient		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

			T
			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-	Compiling medical	Propaedeutics of	Internal Medicine
5.3	documentation for a	Dental Diseases	General Surgery
	dental patient in		Surgical Diseases
	accordance with		Dermatovenerology
			Neurology
	regulatory		Psychiatry and Narcology
	requirements		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)

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			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-	Developing a plan	Immunology,	Internal Medicine
6.1.	for dental disease	Clinical	Clinical Pharmacology
	treatment taking	Immunology	General Surgery
	into account the	Pharmacology	Surgical Diseases
			Health and Safety
	diagnosis, age and		Dermatovenerology
	clinical picture in		Neurology
	accordance with the		Psychiatry and Narcology
	current procedures		Pediatrics
	for the provision of		Endodontics
	medical care,		Gerontostomatology and diseases of the
	, and the second		oral mucosa
	clinical guidelines		Periodontics
	(treatment		Oral surgery
	protocols) on the		Gnathology and Temporo-Mandibular
	provision of		Joint's Functional Diagnostics
	medical care taking		Prosthodontics (Simple Prosthetics)
	into account the		Prosthodontics of Edentulous Patient
			Prosthodontics (Complex Prosthetics)
	medical care		Maxillofacial and Orthognathic Surgery
	standards.		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
	1		Practice

			Deposition for and Dessine the State
			Preparation for and Passing the State Exam
			State Exam (Computer Testing)
			State Exam (Interdisciplinary Interview)
GPC-	Selecting medical	Dental Materials	Internal Medicine
6.2.	products (including	General Surgery	Surgical Diseases
	dental materials) for		Health and Safety
	drawing up a		Dermatovenerology
	comprehensive plan		Psychiatry and Narcology
			Endodontics
	for dental disease		Gerontostomatology and diseases of the
	treatment.		oral mucosa
	Following up the		Periodontics
	treatment of a		Oral surgery
	patient		Gnathology and Temporo-Mandibular
	patient		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)
Profess	sional Competence		
PC-	Making an initial	Immunology,	Health and Safety
1.1.	examination and/or	Clinical	Otorhinolaryngology
	reexamination of a	Immunology	Obstetrics
	patient in order to	Local anesthesia	Endodontics
	make a preliminary	and anesthesiology	Gerontostomatology and diseases of the
	_ ·		oral mucosa
	diagnosis.	in dentistry	Periodontics
		Propaedeutics of	Oral surgery
		Dental Diseases	Gnathology and Temporo-Mandibular
			Joint's Functional Diagnostics
			Prosthodontics (Simple Prosthetics)
			Prosthodontics of Edentulous Patient

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.	Immunology, Clinical Immunology Local anesthesia and anesthesiology in dentistry	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) 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 Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview) Health and Safety Otorhinolaryngology Ophthalmology Obstetrics Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Gnathology and Temporo-Mandibular Joint's Functional Diagnostics Prosthodontics (Simple Prosthetics) 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
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			Modern Endodontics
			Observing and Assisting a Dentist (Oral
			Surgery)
			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
			Preparation for and Passing the State
			Exam
			State Exam (Computer Testing)
			State Exam (Interdisciplinary Interview)
PC-	Detecting if patients	Immunology,	Health and Safety
1.3.	have dentoalveolar,	Clinical	Endodontics
1.5.	facial anomalies,	Immunology	Gerontostomatology and diseases of the
	,	OJ	oral mucosa
	deformities and		Periodontics
	prerequisites for		Gnathology and Temporo-Mandibular
	their development,		Joint's Functional Diagnostics
	defects in the		Prosthodontics (Simple Prosthetics)
	crowns of teeth and		Prosthodontics of Edentulous Patient
	dentition on the		Prosthodontics (Complex Prosthetics)
			Pediatric Maxillofacial Dentistry
	basis of the patient		Maxillofacial Prosthodontics
	examination;		Pediatric Dentistry
	laboratory,		Orthodontics and Pediatric
	instrumental, and		Prosthodontics
	additional		Medical Genetics in Dentistry
	examinations in		Medical Rehabilitation
			Three-dimensional Computer Modeling
	order to make a		of Teeth
	preliminary/final		Modern Endodontics
	diagnosis.		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-	Organizing the	Local anesthesia	Endodontics
2.1.	provision of	and anesthesiology	Gerontostomatology and diseases of the
	emergency and	in dentistry	oral mucosa
	_ ,		Periodontics
	urgent medical care		Oral surgery
	for acute dental		Maxillofacial and Orthognathic Surgery
	diseases,		Head and Neck Diseases
	conditions,		Pediatric Dentistry
	exacerbation of		Orthodontics and Pediatric
	chronic diseases,		Prosthodontics
	which pose a threat		Implantology and Reconstructive Surgery
	to the patient's life,		Modern Endodontics
	or without obvious		Observing and Assisting a Dentist (Oral
			Surgery)
	signs of a threat to		Observing and Assisting a Dentist
	the patient's life.		(Pediatric)
			Observing and Assisting a Dentist
			(General Dentistry), Including Research
			Practice
			Preparation for and Passing the State
			Exam
			State Exam (Computer Testing)
DC	0.1 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	T ('	State Exam (Interdisciplinary Interview)
PC-	Selecting drugs and	Innovative	Clinical Pharmacology
2.2.	medical devices	techniques in dentistry	Endodontics Corontestemetalogy and discusses of the
	(including dental	Local anesthesia	Gerontostomatology and diseases of the oral mucosa
	materials) for dental	and anesthesiology	Periodontics
	disease treatment	in dentistry	Oral surgery
	assessing the	in dentistry	Maxillofacial and Orthognathic Surgery
	possible side effects		Head and Neck Diseases
	of taking medicinal		Pediatric Dentistry
			Orthodontics and Pediatric
	drugs		Prosthodontics
			Physiotherapy of Dental Diseases
			Implantology and Reconstructive Surgery
			Modern Endodontics
			Aesthetic Restoration
			Observing and Assisting a Dentist (Oral
			Surgery)
			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)
PC-	Consulting patients	Medical	Endodontics
2.3.	on methods for	Elementology	
			I .

	treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.	Bioelements in Medicine	Gerontostomatology and diseases of the oral mucosa Periodontics Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Clinical Dentistry 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)
PC- 2.4.	Selecting the type of local anesthesia/anesthesi a 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. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline "Modern Endodontics" is equal to ${\bf 2}$ credits.

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of educational work	Total	Semesters			
	hours	X			
Classroom activities (total)	30	30			
among them					
Lectures					
Practical classes (PC)	30	30			
Seminars (S)					
Laboratory classes (LC)					

Of them in interactive form (IF)				
Independent work (total) (IW)	15	15		
Control (exam)	9	9		
Total workload of disciplines ac. hours	72	72		
credits	2	2		

5. THE COURSE CONTENTS AND ACADEMIC ACTIVITIES

Table 5.1. The content of the discipline

№	Section name		Types of
	disciplines	Section contents	academic
			activity
			activity
1	Section 1 Basic aspects	Topic 1.1. Endodontics or implantation:	LC, IW
	of modern endodontics.	criteria for choosing a treatment method.	
		Topic 1.2. Key stages of endodontic	
		treatment and modern standards for each of them.	
		Topic 1.3. Methods of endodontic	
		treatment: indications and	
		contraindications.	
2		Topic 2.1 Basic diagnostic methods.	LC, IW
	Cartian 2 D'	Additional diagnostic methods.	
	Section 2 Diagnostics	Topic 2.2 Differential diagnosis of	
	in endodontics.	endodontic pathology. The most common	
		diagnostic errors	
3	Section 3 Preparing the	Topic 3.1 Isolation of the working field.	LC, IW
patient for endodontic		Topic 3.2 Creating an access cavity	
	treatment.	depending on the group membership and	
		anatomical features of the teeth.	
		Primary navigation, creation of a "carpet	
4	Section 4 Disinfection	path" and the formation of a root canal. Topic 4.1 Microbiology of the root canal	LC, IW
4	of the root canal	system.	LC, 1 ()
	system.	Topic 4.2 Irrigation solutions.	
	system.	Techniques for activating irrigation	
		solutions.	
		Preparations for disinfection of root canals	
		between visits.	
5	Section 5	Topic 5. Sealers and pastes. Lateral	LC, IW
	Obturation of root	condensation of cold gutta-percha.	
	canals.	Monopin method. Modified lateral	
		condensation, application of gutta-percha	
		on a carrier, vertical compaction of heated	
	G 4 : C G 4 : - :	gutta-percha	LC, IW
6	Section 6 Systemic	Topic 6.1 Non-steroidal anti-inflammatory	LC, IW
	pharmacotherapy in endodontics.	drugs, antibiotics, immunomodulating agents, complex antihomotoxic drugs.	
7	Section 7 Correction of	Topic 7.1 Formation of the access cavity	LC, IW
, 	errors and	using burs and ultrasonic tips: indications	
L	citors and	asing ours and arrasome ups. mateanons	

compli	ications in	for use, quality standards and feasibility.	
endodo	ontic practice.	Elimination of steps in the root canal,	
		tactics of work with complex anatomy of	
		the root canal system.	
		Topic 7.2 The use of MTA in the closure of	
		perforations at various levels, apexification	
		and apexogenesis, direct and indirect pulp	
		capping, pulpotomy.	
		Topic 7.3 Re-treatment of root canals filled	
		with plastic and hardening materials.	
		Tactics of work in the presence of a foreign	
		body in the root canal.	

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

To conduct classes in the discipline "Esthetic restoration 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,

Table 6.1. Equipment of discipline

Type of room	Equipment of room	Specialized educational / laboratory equipment, software and materials for mastering the discipline
Laboratory	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	(if necessary) Available - 4 phantom classes with 78 head modules with builtin jaws with artificial teeth for practicing methods of treating dental diseases. Also for practicing manual skills in preparation on the latest dental simulator with the 3D function VirT EaSy Dental (manufactured in France) - 4 modules with programs for the treatment and implantation of teeth Technical means: TOSHIBA X
Семинарская	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	200 multimedia projector, ASUS F9E Core2 DUO T 5750 laptop, Internet access. Software: Microsoft products (OC, office suite, including MS Office/Office 365, Teams, Skype) a list of specialized equipment, stands, visual posters, etc. List of specialized equipment, stands, visual posters, etc.
For independent work of students	Аудитория для самостоятельной работы обучающихся (может использоваться для проведения семинарских занятий и консультаций), оснащенная комплектом специализированной мебели и компьютерами с доступом в ЭИОС.	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.

7. RECOMMENDED SOURSES for COURSE STUDIES

- 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
 - 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:
- а. Essentials of operative dentistry. Учебное пособие. М.: ГЕОТАР-МЕДИА. 2019, 512 р. 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. M.: РУДН. 2020, 132 c. 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

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