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**Federal State Autonomous Educational Institution of Higher Education**  
**PEOPLES' FRIENDSHIP 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**

**Esthetic Restoration of Teeth**  
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:**

**Specialty**  
higher education programme profile/specialisation title

## 1. THE GOALS OF MASTERING THE DISCIPLINE

The aim is to gain knowledge of anatomy, variability of shapes and morphology of teeth, gain knowledge of examining patients before dental restoration, preparation, determine the shape and color, gain knowledge of direct, indirect and combined types of restoration, gain knowledge of adhesive technologies.

## 2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «**Cariology and diseases of hard tooth tissues**» is aimed at the formation of the following competencies of students:

**General Professional Competences (GPC)- 2.1**

**Professional Competences (PC) – 1.1, 1.3, 2.2**

(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
<b>General Professional Competence</b>		
GPC – 2	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;
<b>Professional Competence</b> PC-1 (1.1,1.3)	Being able to make an examination of a patient in order to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.  PC-1.3. 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 (2.2)	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs
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### 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

№	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
<b>General professional competences</b>			
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 (Pediatric) Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
<b>Professional Competence</b>			

PC-1.1.	Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.	Immunology, Clinical Immunology Local anesthesia and anesthesiology in dentistry Propaedeutics of Dental Diseases	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) 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-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	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

	examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.		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-2.2.	Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs	Innovative Techniques in dentistry Local anesthesia and anesthesiology in dentistry	Clinical Pharmacology 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 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)

#### 4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline "Esthetic Restoration" is equal to 2 credits.

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

Type of educational work	Total hours	Semesters			
		X			
Classroom activities (total)	30	30			
among them					
<i>Lectures</i>					
<i>Practical classes (PC)</i>	30	30			
<i>Seminars (S)</i>					
<i>Laboratory classes (LC)</i>					
Of them in interactive form (IF)					
Independent work (total) (IW)	15	15			
Control (exam)	9	9			
Total workload of disciplines	ac. hours	72			
	credits	2			

#### 5. THE COURSE CONTENTS AND ACADEMIC ACTIVITIES

Table 5.1. The content of the discipline

№	Section name disciplines	Section contents	Types of academic activity
1	Section 1. Variants of teeth shape	Topic 1.1 Modern tooth designation systems. Topic 1.2 Variability of tooth shapes.	LC, IW
2	Section 2. Morphology of the crown part of the teeth	Topic 2.1 Methods of odontometry of teeth. Topic 2.2 Methods of odontoscopy of teeth.	LC, IW
3	Section 3. Clinical methods of examination of the patient when planning restorative therapy.	Topic 3.1 Cavity preparation, features of grinding and polishing.	LC, IW
4	Section 4. Determining the shape and color of teeth	Topic 4.1 Group of incisors of the upper and lower jaws. Topic 4.2 Group of canines of the upper and lower jaws. Topic 4.3 Group of premolars of the upper and lower jaws. Topic 4.4 Group of molars of the upper and lower jaws.	LC, IW

5	Section 5. Various ways to restore missing tooth tissue in aesthetic dentistry	Topic 5.1 Indirect and combined types of restoration. Topic 5.2 Indications and contraindications for the use of various methods of restoring hard tissues of teeth.	LC, IW
6	Section 6. Different types of adhesive technologies	Topic 6.1 New generation adhesive systems. Topic 6.2 Different types of light-curing materials. Choice of restoration materials.	LC, IW
7	Section 7. Stages and sequence of modeling teeth and various improvised materials on phantoms	Topic 7.1 Restoration of posterior teeth. Mistakes and their solutions. Stages of restoration: preparation, modeling, finishing. Topic 7.2 Restoration of the anterior teeth. Topic 7.3 Errors and their solutions. Topic 7.4 Stages of restoration: preparation, modeling, finishing.	LC, IW

## 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 (if necessary)
Laboratory	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	Available - 4 phantom classes with 78 head modules with built-in 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..
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.	Technical means: TOSHIBA X 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	An auditorium for independent work of students (can be used for seminars and

Type of room	Equipment of room	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	специализированной мебели и компьютерами с доступом в ЭИОС.	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](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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signature

Head of Educational Process  
of Conservative Dentistry  
Department, Associate  
Professor

I.V. Bagdasarova

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Associate Professor of  
Conservative Dentistry  
Department

M.K. Makeeva

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**HEAD OF DEPARTMENT:**

Head of Conservative  
Dentistry Department,  
Associate Professor

Z.S. Khabadze

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**HEAD OF HIGHER EDUCATIONAL PROGRAMME:**

Deputy Director of MI for  
Academic Affairs

S.N. Razumova

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