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

Medical Institute

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

COURSE SYLLABUS

Aesthetic Restoration

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 is to gain knowledge of anatomy, variability of shapes and morphology of teeth by students, 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 by students.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Aesthetic Restoration»** is aimed at the development of the following competences /competences in part: GPC - 2, PC – 1, PC – 2.

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

Competence code	**Competence descriptor**	**Competence formation indicators** (within this course)
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;
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.
		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

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	**Competenc e descriptor**	**Previous courses/modules***	**Subsequent courses/modules***

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)
PC-1.1.	Making an initial examination and/or reexaminatio n 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 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-2.2.	Selecting drugs and medical devices (including dental materials) for dental	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

	disease treatment assessing the possible side effects of taking medicinal drugs		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)

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "**Aesthetic Restoration"** is **2** credits (72 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**			
			10 (A)			
Contact academic hours		34	34			
including:						
Lectures (LC)						
Lab work (LW)						
Seminars (workshops/tutorials) (S)		34	34			
Self-studies		*35*	*35*			
Evaluation and assessment (exam/passing/failing grade)		*3*	*3*			
Course workload	academic hours	72	72			
	credits	2	2			

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	**Course module contents (topics)**	**Academic activities types**
Section 1. Variants of teeth shape	Topic 1.1 Modern tooth designation systems. Topic 1.2 Variability of tooth shapes.	S
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.	S
Section 3. Clinical methods of examination of the patient when planning restorative	Topic 3.1 Cavity preparation, features of grinding and polishing.	S

therapy.		
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.	S
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.	S
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.	S
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.	S

** - 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	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..
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized	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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	furniture and technical means for multimedia presentations.	365, Teams, Skype) a list of specialized equipment, stands, visual posters, etc. List of specialized equipment, stands, visual posters, etc.
Self-studies	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.	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. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

a. Essentials of operative dentistry. Textbook. M.: GEOTAR-MEDIA. 2019, 512 p. Grif UMO: registration number of review 571 EKU from December 20, 2018. 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 Textbook/Moscow 2107

c. Tutorial guide of operative dentistry for dental students of second and third year of education, Daurova F. Yu. Yu., Khabadze Z.S., Makeeva V.K. Moscow, 2016

d. Tests and tasks for students of 2nd year for discipline “Cariology”. Current control. MOSCOW: RUDN. 2020, 132 c. Daurova F. Yu., Makeeva M/K/Vayts S. V., Khabadze Z.S.

e. Fundamentals of cariesology in tests and tasks: test control and assessment of knowledge level. (Fundamentals of cariesology in tests and tasks: Competency and knowledge assessment). Educational and methodical recommendations in English. Moscow: PFUR Publishing House. 2018, 88 c. Khabadze Z.S., Bagdasarova I.V., Zoryan A.V., Karnayeva A.S., Kozhevnikova L.A.

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/

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course “Aesthetic Restoration”.
2. The laboratory workshop (if any) on the course “Aesthetic Restoration”.
3. The guidelines for writing a course paper / project (if any) on the course “Aesthetic Restoration”.
4. ……

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC - 2, PC – 1, PC – 2) upon the course study completion are specified in the Appendix to the course syllabus.

DEVELOPERS:

Head of Conservative Dentistry Department, Associate Professor		Z.S. Khabadze
position, department	signature	name and surname
Head of Educational Process of Conservative Dentistry Department, Associate Professor		I.V. Bagdasarova
position, department	signature	name and surname
Associate Professor of Conservative Dentistry Department		M.K. Makeeva
position, department	signature	name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Conservative Dentistry		Z.S. Khabadze
name of department	signature	name and surname

HEAD OF HIGHER EDUCATION PROGRAMME:

Deputy Director of MI for Academic Affairs		S.N. Razumova
position, department	signature	name and surname