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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University
Institute of Medicine**

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

COURSE SYLLABUS

Aesthetic 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:

Dentistry

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course “Aesthetic restoration of teeth” is to equip students with the 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 FOR LEARNING OUTCOMES

Mastering the course (module) “Aesthetic restoration of teeth” is aimed at the development of the following competences /competences in part: **(GPC)- 2.1, PC– 1.1, 1.3, 2.2.**

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 analyze the results of their own professional activity to prevent professional errors	GPC-2.1. Analyzing the causes of professional errors, therapeutic failures and conflict situations
		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.
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	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	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC – 2	Being able to analyze the results of their own professional activity to prevent professional errors	Propedeutics Local anesthesia and anesthesiology in dentistry Materials Science Cariology Endodontics	Periodontics Gerontostomatology and diseases of the oral mucosa Implantology and reconstructive surgery of the oral cavity
PC – 1	Being able to make an examination of a patient in order to determine a diagnosis.	Prevention and communal dentistry Propaedeutics Local anesthesia and anesthesiology in dentistry Material Science Cariology Endodontics Periodontology Dental prosthetics (simple prosthetics) Prosthetics with no teeth Oral surgery 3D Technologies in dentistry Dental Assistant practice (dental surgeon) Dental Assistant Practice (therapeutic dentist) Dental Assistant Practice (prosthetic dentist)	Oral and Maxillofacial Surgery Dental prosthetics Head and Neck Diseases Implantology and reconstructive surgery of the oral cavity
PC – 2	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when	Prevention and communal dentistry Propaedeutics Local anesthesia and anesthesiology in	Periodontics Gerontostomatology and diseases of the oral mucosa Implantology and reconstructive surgery of the

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	solving professional tasks	dentistry Science of dental materials Cariology Endodontics Dental prosthetics (simple prosthetics)	oral cavity Oral and Maxillofacial Surgery Dental prosthetics Head and Neck Diseases

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Aesthetic restoration of teeth” is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering

Type of academic activities		Total academic hours	Semesters/training modules
			5
<i>Contact academic hours</i>		30	30
<i>including:</i>			
Lectures (LC)		20	20
Lab work (LW)			
Seminars (workshops/tutorials) (S)		10	10
<i>Self-studies</i>		15	15
<i>Evaluation and assessment (exam/passing/failing grade)</i>		9	9
Course workload	academic hours	84	84
	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.	LC, S
	Topic 1.2 Variability of tooth shapes.	LC, S
Section 2. Morphology of the crown part of the	Topic 2.1 Methods of odontometry of teeth.	LC, S

teeth	Topic 2.2 Methods of odontology of teeth.	LC, S
Section 3. Clinical methods of examination of the patient when planning restorative therapy.	Topic 3.1 Cavity preparation, features of grinding and polishing.	LC, S
Section 4. Determining the shape and color of teeth	Topic 4.1 Group of incisors of the upper and lower jaws.	LC, S
	Topic 4.2 Group of canines of the upper and lower jaws.	LC, S
	Topic 4.3 Group of premolars of the upper and lower jaws.	LC, S
	Topic 4.4 Group of molars of the upper and lower jaws.	LC, S
Section 5. Various ways to restore missing tooth tissue in aesthetic dentistry	Topic 5.1 Indirect and combined types of restoration.	LC, S
	Topic 5.2 Indications and contraindications for the use of various methods of restoring hard tissues of teeth.	LC, S
Section 6. Different types of adhesive technologies	Topic 6.1 New generation adhesive systems.	LC, S
	Topic 6.2 Different types of light-curing materials. Choice of restoration materials.	LC, 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.	LC, S
	Topic 7.2 Restoration of the anterior teeth.	LC, S
	Topic 7.3 Errors and their solutions.	LC, S
	Topic 7.4 Stages of restoration: preparation, modeling, finishing.	LC, 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 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.
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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		with access to the EIOS.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

Essentials of operative dentistry. Textbook. M.: GEOTAR-MEDIA. 2019, 512 p. UMO Vulture: registration number of review 571 ECU 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-carious 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 years 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: PFUR. 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 knowledge assessment. (Fundamentals of cariesology in tests and tasks: Competency and knowledge assessment). Teaching guidelines in English. M.: Publishing house of PFUR. 2018, 88 c. Khabadze Z.S., Bagdasarova I.V., Zoryan A.V., Karnaeva 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.elsevier.com/locate/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 of teeth"

* 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- 2.1, PC- 1.1, 1.3, 2.2.**) 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).

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