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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**

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**Propaedeutics of Dental Diseases**

course title

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**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

2023-2024

## 1. COURSE GOAL(s)

The goal of the course «**Propaedeutics of Dental Diseases**» is to equip students with the basic knowledge and skills in conservative, prosthetic and surgical dentistry.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Propaedeutics of Dental Diseases**» is aimed at the development of the following competences /competences in part: General Professional Competences- (GPC)- 5, Professional Competences- (PC)- 1, 2, 7.

*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 (within this course)</b>
GPC-5	Able to examine the patient to establish a diagnosis when solving professional problems.	GPC-5.1. Collect anamnesis by analyzing the patient's complaints, conducting a physical examination at the dental appointment.
		GPC-5.3. Registration of medical record of a dental patient in accordance with regulatory requirements.
PC-1	Capable of examining the patient to establish a diagnosis.	PC-1.1. Conducts a primary and / or repeated examination of the patient to establish a preliminary diagnosis.
PC-2	Able to prescribe, monitor the effectiveness and safety of drug and non-drug treatment in solving professional problems.	PC-2.4. Conducts the selection of the type of local anesthesia and assesses possible complications caused.
PC-7	Able to conduct organizational and managerial activities.	PC-7.1. Conducts maintenance of medical records.

## 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*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/modules*</b>	<b>Subsequent courses/modules*</b>
GPC-5.	Able to examine the patient to establish a diagnosis when solving professional problems	Introduction to the specialty. Materials Science. Latin. Biological chemistry – biochemistry of the oral cavity. Human anatomy – Head and neck anatomy Normal physiology - physiology of the maxillofacial region. Medical Informatics.	All dental clinical disciplines
PC-1.	Capable of examining the patient to establish a diagnosis.	Introduction to the specialty. Materials Science. Latin. Biological chemistry – biochemistry of the oral cavity. Human anatomy – Head and neck anatomy Normal physiology - physiology of the maxillofacial region. Medical Informatics.	All dental clinical disciplines
PC-2	Ability to prescribe, monitor the effectiveness and safety of drug and non-drug treatment in solving professional problems.	Introduction to the specialty. Materials Science. Latin. Biological chemistry – biochemistry of the oral cavity. Human anatomy – Head and neck anatomy Normal physiology - physiology of the maxillofacial region. Medical Informatics.	All dental clinical disciplines
PC-7	Capable of conducting	Introduction to the	All dental clinical

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	organizational and managerial activities	specialty. Materials Science. Latin. Biological chemistry – biochemistry of the oral cavity. Human anatomy – Head and neck anatomy Normal physiology - physiology of the maxillofacial region. Medical Informatics.	disciplines

\* 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 «**Propaedeutics of Dental Diseases**» is 6 credits (216 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		
		3	4	
<i>Contact academic hours</i>	140	68	72	
<i>Including:</i>				
Lectures (LC)	-	-	-	
Lab work (LW)	140	68	72	
Seminars (workshops/tutorials) (S)				
<i>Self-studies</i>	76	40	36	
<i>Evaluation and assessment (exam/passing/failing grade)</i>		-		
<b>Course workload</b>	academic hours_	216	108	108
	credits	<b>6</b>	<b>3</b>	<b>3</b>

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

#### 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

Course module title	Course module contents (topics)	Academic activities types
Module 1: The Basics...	Examination of the patient in the practice of a dentist. Medical records, medical history. Basic and additional methods of examination. instruments for examining a dental patient.	LW

Course module title	Course module contents (topics)	Academic activities types
	Rules for filling the dental formula.	
	The concept of caries, classification. Pathogenesis of the development of the carious process. Methods of treatment of caries. Stages of preparation of cavities. Isolation of the operating field: rubber dam.	LW
	Principles and stages of preparation of carious cavities I, Black class and VI . Elements of the formed cavity. Toolkit. Restoration with various materials. Possible errors and complications, their prevention.	LW
	Principles and stages of preparation of carious cavities of class V according to Black. Elements of the formed cavity. Toolkit. Restoration with various materials. Possible errors and complications, their prevention.	LW
	Basic principles and stages of preparation of carious cavities of class II according to Black. Restoration with various materials. Possible errors and complications, their prevention.	LW
	The basic principles and stages of preparation of carious cavities of the III class according to Black. Restoration with various materials. Possible errors and complications, their prevention.	LW
	Basic principles and stages of preparation of carious cavities of class IV according to Black. Restoration with various materials. Possible errors and complications, their prevention.	LW
	Colloquium 1.	LW
	The concept of endodont, periodontal disease. The pulp of the tooth. Anatomical and topographic features of the structure of the cavity of the teeth of the maxilla and mandible. Indications for endodontic treatment. Methods of treatment of pulpitis. Stages of endodontic treatment. The concept of "opening" and opening the cavity of the tooth. Anatomical and topographic landmarks used to open the cavity of an intact tooth. Errors in the opening of the tooth cavity and their prevention.	LW
	Endodontic tools, purpose, standardization. Instruments for root canal treatment, passage, and expansion. Types of movement of instruments in the canal. Methods for determining the working length of the root	LW

Course module title	Course module contents (topics)	Academic activities types
	canal. Errors in determining the working length.	
	Standardized root canal treatment technique. Stages of endodontic treatment of the root canal. Medications for root canal treatment. Ways to chemically expand root canals. Errors in mechanical and drug treatment of the root LW, SS canal.	LW
	Instrumental and medical treatment of root canals. "Step-back" and "crown-down" methods. Errors in mechanical and drug treatment of the root canal.	LW
	Devitalizing (necrotizing) agents, their purpose and application Impregnation methods of treatment of pulpitis. Errors and complications in impregnation methods of pulpitis treatment.	LW
	Methods of obturation of root canals. Method of filling root canals with one paste and one (central) pin method. Errors and complications, their prevention.	LW
	Methods of obturation of root canals. Lateral and vertical condensation method. Mistakes and complications, their prevention.	LW
	Colloquium 2	LW
	Test.	LW
Propaedeutics of prosthetic dentistry.	Biomechanics of the mandible movements. The concept of the dental, alveolar, and basal arch (arc of Kemeny). Articulation, occlusion, types of bite. Definition of Central occlusion, signs.	LW
	Biomechanics of the mandible movements. The concept of the occlusal surface and the occlusal plane. Articulation and dynamic occlusion. Paths and angles of the mandible movements in different planes. Occludator , application. Articulator, application.	LW
	Defects in the coronal part of the tooth and the crown restoration with prosthetic methods, IDOST. Indications for the use of inlays. Features of tooth preparation for inlays. Methods of manufacturing of the inlays (direct, indirect).	LW
	Types of artificial crowns, indications. Requirements for artificial crowns. Special features of tooth preparation for the swaged crowns, instruments. Clinical and laboratory	LW

Course module title	Course module contents (topics)	Academic activities types
	stages of swaged crowns manufacturing.	
	<p>Indications and contraindications for prosthetic treatment of the tooth and tooth arch with the casted, porcelain fused to metal, resin fused to metal fixed constructions. Materials used for their production, physicochemical properties. Features of the tooth preparation for the casted, porcelain fused to metal, resin fused to metal fixed crowns. Retraction of the gum and its types. Two-layer impression, its purpose, materials. Manufacturing of the combined separable models, materials, methods. The concept of “the step”, its purpose, types. Clinical and laboratory stages of casted constructions manufacturing.</p>	LW
	<p>Casted, porcelain fused to metal, resin fused to metal crown. Requirements for the frame of such structures and facing material, their physical and chemical properties. Two-layer impression, its purpose, materials. Manufacturing of the combined separable models, materials, methods. Technology of manufacture of porcelain fused to metal, resin fused to metal dentures. Method for manufacture of temporary (substitute) structures. Features of preparation of teeth under a ceramic crown. Clinical and laboratory stages of manufacturing ceramic structures.</p>	LW
	<p>Indications for arch defects treatment with dental bridges, materials, used for it. Special features of teeth preparation for dental bridges. Clinical and laboratory stages of manufacturing</p>	LW
	<p>Post construction. Standard and individual manufacture. Clinical and laboratory stages of manufacturing.</p>	LW
	<p>Colloquium 1.</p>	LW
Propaedeutics of surgical dentistry.	Anatomic and topographic features of structure and innervation of the upper and lower jaws.	LW

Course module title	Course module contents (topics)	Academic activities types
	Anesthetics. Instruments for injective anesthesia. Types of local anesthesia in dentistry. Peripheral (infiltrative and application) anesthesia. Types, methods, indications.	
	Methods and ways of Field blocks on the upper jaw	LW
	Indications and contraindications for tooth extraction. Stages of tooth extraction. Special features of construction of the forceps for upper teeth extraction. Ways of handling.	LW
	Instruments, methods and special features of teeth and roots extraction on the upper jaw. Doctor's position and position of the patient.	LW
	Methods of root extraction on the lower and upper jaw using elevators and handpiece. Wound treatment after complex tooth extraction and care for it.	LW
	General and local complications after local anesthesia and tooth extraction. Reasons and solving	LW
	Colloquium 2.	

\* - 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)
Lecture	For lectures (lecture hall № 204 faculty of Russian RF language, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector.	Set of specialized furniture. <u>Technical support:</u> – multimedia projector, – Internet access. <u>Software:</u> – Microsoft Windows, MS Office / Office 365, MS Teams
Lab work	Classrooms are located in : Agrarian and Technological Institute and Faculty of	Set of specialized furniture. Dental Simulation Units.



	<p>Humanities and Social Sciences.</p> <p>In ATI: classroom 249, 250, 251, 252 (phantom class) and 253.</p> <p>In HSS: classroom, 232-235 (phantom class).</p>	<p>projector DVPH Optoma H114.</p> <p>Automated workplace Lenovo TrinkCentre M71z.</p> <p>Laptop Asus X756UV Intel.</p> <p>Projector Acer P1285.</p> <p>Screen Elite Screens Spectrum Electric100V.</p> <p>Laptop ASUS X751LDV.</p> <p>All-in-one Dell Optiplex 3030.</p> <p>Personal computer TMO3300 i3 254.</p> <p>Polymerization lamps "Woodpecker".</p> <p>Control units with micromotor handpiece.</p> <p>Multimedia Projector Sony VPL-C6.</p> <p>Electric screen Projecta PSECO001 Elpro electrol 160x160cm.</p> <p>DUMMIES of the patient's head for phantom works in a complete set.</p> <p>Electrically operated dental chair with programmable position.</p> <p>Doctor's blocks in the configuration.</p> <p>Monitor 17" BenQ сч.1472.</p> <p>Tripod screen Projecta, 180x180.</p> <p>controlled dental unit with 2</p>
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		<p>handpieces and air syringe</p> <p>handpieces «DARTA 1440».</p> <p>Maxilla and mandible models with articulator.</p> <p>Cabinet for storage of sterile tools.</p> <p>Instruments used in conservative, prosthetic, and surgical dentistry.</p> <p>Supplies: gypsum, wax, casting masses, filling materials, etc.</p> <p><i><u>Information stands and expositions:</u></i></p> <p>– information stands in Russian language and English.</p> <p>– visual aids, posters, dummies.</p>
Computer Lab	Not provided	
Self-studies	Places for self-studies medical institute, ATI, HSS, RF, as well as the halls of the Scientific Library in the Main Building of RUDN University.	

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Razumova S.N., Propaedeutics of dental diseases. Textbook. Ed. Razumova, S.N. Lebedenko I.Yu. , Ivanova S.Yu.. - M. : GEOTAR-Media, 2019. - 336 p. : ill.

### *Additional readings:*

1. Bazikyan E. A. Dental instruments. Atlas / E.A. Bazikyan. - 3rd ed., revised. - M. : GEOTAR-Media, 2017. - 168 p.
2. Nikolaev A.I., Tsepov L.M. Practical therapeutic dentistry. Tutorial. 9th edition. Moscow. "MEDpress-inform" 2017. 925 p.

3. Bazikyan E. A. Endodontics. Textbook / E.A. Bazikyan, L.V. Volchkova, G.I. Lukin; Under the general editorship. prof. E.A. Bazikyan. - M. : GEOTAR-Media, 2016. - 160 p.
4. Bazikyan E.A. Propaedeutic dentistry. Textbook / etc; Ed. E.A. Bazikyan, O.O. Yanushevich. - 2nd ed., revised. and additional - M. : GEOTAR-Media, 2016.
5. Bazikyan Ernest Aramovich. Tooth extraction operation [Electronic resource]: Study guide / E.A. Bazikyan. - M. : GEOTAR-Media, 2016. - 144 p.
6. Bazikyan E.A. Local anesthesia in dentistry. Textbook for university students. Ed. E. A. Bazikyan. - M. : GEOTAR-Media, 2016.
7. Maksimovsky Yu.M. Phantom course in therapeutic dentistry: a textbook. - M.: Medicine, 2005. - 328 p.
8. Pozharitskaya M.M., Simakova T.G. Propaedeutic dentistry. Educational literature for students of dental faculties of medical universities. M.: "Medicine" 2004. 301 p.
9. Borovsky E.V. Therapeutic dentistry: a textbook for medical students. - M.: Medical Information Agency, 2003. - 840 p.
10. Bizyaev A.F., Ivanov S.Yu., Leptlin A.V., Rabinovich S.A. Anesthesia in a dental clinic. M. : GOU VUNMTs of the Ministry of Health of the Russian Federation, 2002. - 144 p.: ill.
11. Razumova S.N., Bulgakov V.S., Manvelyan A.S., Khaskhanova L.M. Propaedeutics of dental diseases: a course in cariesology. Theories of caries. The concept of caries. Classification. Tools. Teaching aid for students. - M. RUDN. 2016. - p.75.
12. Daurova F.Yu., Bagdasarova T.V., Makeeva M.K., Kodzaeva E.S. Therapeutic dentistry: textbook.-Moscow: RUDN University, 2017.-160 p. : ill.

#### *Internet sources*

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

2. Databases and search engines:

electronic foundation of legal and normative-technical documentation  
<http://docs.cntd.ru/>

Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)

Google search engine <https://www.google.ru/>

Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA <http://web-local.rudn.ru/web-local/kaf/rj/index.php?id=93>

Electronic libraries with access for RUDN students <http://lib.rudn.ru/MegaPro/Web>

Telecommunication Training and Information System (TTIS)  
Online university library  
Electronic library Wellcome Library

<http://esystem.pfur.ru>  
<http://www.biblioclub.ru>  
<https://wellcomecollection.org/>

Consilium Medicum и приложения [Электронный ресурс]: Database / "Consilium Medicum". - RF, 1999. - Electronic resources for educational and scientific activities

<http://con-med.ru/>

Electronic libraries Russian state library  
Electronic library for textbooks  
Scientific electronic library

<http://www.rsl.ru/>  
<http://studentam.net/>  
<http://elibrary.ru/defaultx.asp>

Bentham Sciences [Electronic resource]: Database / Bentham Science Publishers. - United Arab Emirates. - - Electronic resources for scientific activities

<http://www.benthamscience.com>

European electronic library Europeana

<http://www.europeana.eu/portal/>

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

1. The set of lectures on the course «**Propaedeutics of Dental Diseases**»

\* 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)- 5, (PC)- 1, 2, 7.) 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).

### **DEVELOPERS:**

Senior Lecturer of the  
Department of Propaedeutics  
of dental diseases

A.S. Manvelyan

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position, department

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signature

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name and surname

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Assistant of the Department of

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Z.A. Guryeva

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Propaedeutics  
of dental diseases

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position, department

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signature

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name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**  
of dental propaedeutics

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name of department

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signature

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S.N. Razumova

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name and surname

**HEAD  
OF HIGHER EDUCATION PROGRAMME:**  
Deputy Director of Medical  
Institute

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position, department

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signature

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S.N. Razumova

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name and surname