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Federal State Autonomous Educational Institution for Higher Education

PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA

RUDN University

Institute of Medicine

(name of the main educational unit)

COURSE SYLLABUS

PROPAEDEUTICS OF DENTAL DISEASES

(Subject / Course title)

Recommended by the Didactic Council for the Education Field of:

31.05.03. Dentistry

(Code and Higher Education Field)

The study of disciplines is conducted within the framework of mastering the basic professional educational program of higher education:

Dentistry

(Name of specialization EP of HE)

2024 г.

COURSE GOAL(s)

The goal of the course "Propaedeutics of dental diseases" is to provide students with basic knowledge and practical skills underlying therapeutic, orthopedic and surgical dentistry.

REQUIREMENTS FOR LEARNING OUTCOMES

The development of the discipline "Propaedeutics of dental diseases" is aimed at the formation of the following competencies (parts of competencies): GPC – 5 (GPC -5.1, GPC -5.3); PC–1 (PC -1.1.), PC –2 (PC -2.4.), PC –7 (PC -7.1.).

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

Code	Competencies	Indicators of competence achievement
GPC - 5.	The ability to conduct a patient examination in order to establish a diagnosis when solving professional tasks.	GPC -5.1. Collecting anamnesis, analyzing patient complaints, conducting a physical examination at a dental appointment.
		GPC -5.3. Registration of medical documentation of a dental patient in accordance with regulatory requirements.
PC -1.	The ability to conduct an examination of the patient in order to establish a diagnosis.	PC -1.1. Conducting an initial and/or repeated examination of the patient in order to establish a preliminary diagnosis.
PC -2.	The ability to prescribe, control the effectiveness and safety of non-medicamental and medicamental treatment.	PC -2.4. Selection of the type of local anesthesia/anesthesia and assessment of possible complications caused by their use.
PC -7.	The ability to conduct organizational and managerial activities.	PC -7.1. Maintaining medical records.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE.

The course "Propaedeutics of dental diseases" refers to the mandatory part: block B.1 of the EP of HE.

Within the framework of the EP of HE, students also master other disciplines that contribute to achieving the planned results of mastering the discipline "Propaedeutics of dental diseases".

Table 3.1. The list of components of the EP of HE that contribute to achieving the planned results of mastering the discipline

Code	Competencies	Previous disciplines	Subsequent disciplines
GPC-5.	The ability to conduct a patient examination in order to establish a diagnosis when solving professional tasks.	Introduction to the specialty. Materials science. The Latin language. Biological chemistry is the biochemistry of the oral cavity. Human anatomy is the anatomy of the head and neck. Normal physiology is the physiology of the maxillofacial region. Medical informatics.	ALL dental clinical disciplines.
PC-1.	The ability to conduct an examination of the patient in order to establish a diagnosis.	Introduction to the specialty. Materials science. The Latin language. Biological chemistry is the biochemistry of the oral cavity. Human anatomy is the anatomy of the head and neck. Normal physiology is the physiology of the maxillofacial region. Medical informatics.	ALL dental clinical disciplines.
PC-2.	The ability to prescribe, control the effectiveness and safety of non-medicamental and medicamental treatment.	Introduction to the specialty. Materials science. The Latin language. Biological chemistry is the biochemistry of the oral cavity. Human anatomy is the anatomy of the head and neck. Normal physiology is the physiology of the maxillofacial region. Medical informatics.	ALL dental clinical disciplines.

PC-7.	The ability to conduct organizational and managerial activities.	Introduction to the specialty. Materials science. The Latin language. Biological chemistry is the biochemistry of the oral cavity. Human anatomy is the anatomy of the head and neck. Normal physiology is the physiology of the maxillofacial region. Medical informatics.	ALL dental clinical disciplines.
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total labor intensity of the discipline "Propaedeutics of dental diseases" is 7 credits.

Table 4.1. Types of educational work according to the periods of mastering the EP of HE for FULL-time education.

Type of educational work		Quantity of hours	Semesters	
			3	4
Контактная работы, ак.ч.		140	68	72
Including:		-	-	-
<i>Lectures</i>		-	-	-
<i>Lab work (LW)</i>		140	68	72
Self-study (total):		112	58	54
Total labor intensity		ac. h.	252	126
		pass/fail grading	73	

5. COURSE CONTENTS

Table 5.1. The content of the discipline (module) by type of academic work.

Name of the discipline section	№ Topic	The content of the section (topics)	Type of ac. work
Section 1.		2nd year - 3 semester.	work
Propaedeutics of therapeutic dentistry. Module 1,2.	Topic 1	Examination of the patient in the practice of a dentist. Medical documentation, medical history. Basic and additional examination methods. Instruments for examination of a dental patient. Rules for filling in the dental formula.	L.SS.

	Topic 2	The concept of caries, classification. The pathogenesis of the development of the carious process. Methods of caries treatment. The stages of cavity preparation. Isolation of the operating field: cofferdam.	L.SS.
	Topic 3	Principles and stages of preparation of carious cavities of the I, Black class and VI class. Elements of the formed cavity. The toolkit. Restoration with various materials. Possible mistakes and complications, their prevention.	L.SS.
	Topic 4	Principles and stages of preparation of carious cavities of class V according to Black. Elements of the formed cavity. The toolkit. Restoration with various materials. Possible mistakes and complications, their prevention.	L.SS.
	Topic 5	The basic principles and stages of preparation of carious cavities of class II according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.	L.SS.
	Topic 6	The basic principles and stages of preparation of carious cavities of class III according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.	L.SS.
	Topic 7	The basic principles and stages of preparation of carious cavities of class IV according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.	L.SS.
	Topic 8	Colloquium on the section.	L.SS.
	Topic 9	The concept of endodontics, periodontitis, periodontitis. The pulp of the tooth, its meaning. Anatomical and topographic features of the structure of the dental cavity of the upper and lower jaw. Indications for endodontic treatment. Methods of treatment of pulpitis. Stages of endodontic treatment. The concept of "opening" and opening of the tooth cavity. Anatomical and topographic landmarks used to open the cavity of an intact tooth. Mistakes in the opening of the tooth cavity and their prevention.	L.SS.
	Topic 10	Endodontic tools, purpose, standardization. Tools for processing the mouth of the root canal, passage and expansion. Types of movement of instruments in the channel. Methods for determining the working length of the root canal. Mistakes in determining the working length.	L.SS.
	Topic 11	A standardized method of root canal treatment. Stages of endodontic treatment of the root canal. Medicinal products for root canal treatment. Methods of chemical expansion of root canals. Mistakes in mechanical and medical treatment of the root canal.	L.SS.
	Topic 12	Instrumental and medical treatment of root canals. The "step-back" and "crown-down" methods. Mistakes in mechanical and medical treatment of the root canal.	L.SS.

	Topic 13	Devitalizing (necrotizing) agents, their purpose and application of Impregnation methods of pulpitis treatment. Complications in the impregnation methods of pulpitis treatment.	L.SS.
	Topic 14	Methods of root canal obturation. The technique of filling root canals with one paste and the method of one (central) pin. Complications, their prevention.	L.SS.
	Topic 15	Methods of root canal obturation. The method of lateral and vertical condensation. Complications and their prevention.	L.SS.
	Topic 16	Colloquium on the section.	L.SS.
	Topic 17	A credit lesson.	L.SS.
Section 2.	№ Topic	2nd year - 4 semester	Type of ac. work
Propaedeutics of orthopedic dentistry. Module 3,4.	Topic 1	Biomechanics of lower jaw movements. The concept of the dental, alveolar and basal arches (Kemeni arches). Occlusion, types of bite. Definition of central occlusion, signs.	L.SS.
	Topic 2	Biomechanics of lower jaw movements. The concept of an occlusal surface and an occlusal plane. Articulation and dynamic occlusion. Paths and angles during movements of the mandible in various planes. Occludator, application. Articulator, application.	L.SS.
	Topic 3	Defects of the crown part of the tooth and restoration of the crown by orthopedic methods and surgical procedures. Indications for the use of tabs. Features of preparation of the tooth under the tab. Tab manufacturing methods (direct, indirect).	L.SS.
	Topic 4	Types of artificial crowns, indications for use. Requirements for artificial crowns. Features of preparation of teeth for stamped crowns, tools. Clinical and laboratory stages of manufacturing a stamped crown.	L.SS.
	Topic 5	Indications and contraindications for orthopedic treatment of defects in the crown of the tooth and dentition with cast, metal-ceramic, metal-plastic non-removable structures. Materials for their manufacture. Features of dental odontopreparation for cast, metal-ceramic, metal-plastic crowns. Gum retraction and its types. A two-layer impression (impression) is its purpose, materials for removing the impression. Production of a combined collapsible model, materials, methods. The concept of "ledge", its purpose, types. Clinical and laboratory stages of their manufacture.	L.SS.

	Topic 6	Cast crowns with plastic and ceramic cladding. Requirements for the frame of such structures and cladding material, their physico-chemical properties. A two-layer impression (impression) is its purpose, materials for removing the impression. Technological features in the manufacture of metal-plastic and metal-ceramic dentures. The method of manufacturing temporary (replacement) structures. Features of odontopreparation of teeth for an all-ceramic crown. Clinical and laboratory stages of manufacturing of all-ceramic structures.	L.SS.
	Topic 7	Indications for the treatment of dental defects with bridges, materials used for this purpose. Features of dental preparation in the manufacture of bridges. Clinical and laboratory stages of manufacturing.	L.SS.
	Topic 8	Pin designs: standard and individually made. Clinical and laboratory stages of manufacturing.	L.SS.
	Topic 9.	Colloquium on the section.	L.SS.
Section 3. Propaedeutics of surgical dentistry. Module 5,6.	Topic 10	Anatomical and topographic features of the structure and innervation of the upper and lower jaw. Anesthetics. Instruments for injection anesthesia. Types of local anesthesia in dentistry. Peripheral (application and infiltration) anesthesia. Types and methods of conducting. Indications for use.	L.SS.
	Topic 11	Methods and methods of conducting conduction anesthesia on the upper jaw.	L.SS.
	Topic 12	Methods and techniques of conducting conductive anesthesia on the lower jaw.	L.SS.
	Topic 13	Indications and contraindications for tooth extraction surgery. The stages of tooth extraction. Features of the structure of forceps for the operation of removing teeth of the upper and lower jaw. Methods of holding forceps.	L.SS.
	Topic 14	Tools, methods and features of tooth extraction and their roots on the upper jaw. The position of the doctor and the patient when removing teeth and their roots on the upper jaw.	L.SS.
	Topic 15	Tools, methods and features of tooth extraction and their roots on the lower jaw. The position of the doctor and the patient when removing teeth and their roots on the lower jaw.	L.SS.
	Topic 16	The technique of removing the roots of teeth on the upper and lower jaw using elevators and a drill. Wound treatment after complex tooth extraction and care for it.	L.SS.
	Topic 17	General and local complications of local anesthesia and tooth extraction surgery. The reasons and tactics of the dentist.	L.SS.
	Topic 18	Colloquium on the section.	L.SS.

6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS:

Classroom for Academic Activity Type	Equipping the audience	Specialized educational/laboratory equipment, Software and materials.
Lecture Classroom	The lecture-type classroom is equipped with a set of specialized furniture; a blackboard (screen) and multimedia presentation equipment.	<p>A set of specialized furniture.</p> <p><i>Technical support:</i></p> <ul style="list-style-type: none"> – multimedia projector, – Internet connection. <p><i>Software:</i></p> <ul style="list-style-type: none"> – Microsoft products (the operating system, a suite of office applications, including MSOffice/ Office 365, Teams.)
Lab/ Seminars classroom	<p>Classrooms are located in buildings: ATI and GUM-SOC.</p> <p>In the ATI building: audiences 249, 250, 251, 252 (the phantom class) и 253.</p> <p>In the GUM-SOC building: audiences 232-235 (the phantom class).</p>	<p>A set of specialized furniture.</p> <p><i>Technical support:</i></p> <p>Dental simulation units.</p> <p>DLP Optoma H114 Projector.</p> <p>Lenovo Think Centre M71z automated workplace.</p> <p>Laptop Asus X756U Intel.</p> <p>Projector Acer P1285.</p> <p>Display Elite Screens Spectrum Electric 100V.</p> <p>Laptop ASUS X751LDV.</p> <p>Monoblock Dell Optiplex 3030.</p> <p>PC TMO3300 i3 254.</p> <p>Polymerization lamps "Woodpecker".</p> <p>Control units with a micromotor tip.</p> <p>Multimedia projector Sony VPL-C6.</p> <p>Electric screen Projecta PSECO001 Elproelectrol 160x160 sm.</p> <p>MOULAGES patient's head for phantom work in the</p>

		<p>package.</p> <p>Dental chair with electric drive and programmable position.</p> <p>The doctor's units are included.</p> <p>Screen 17" BenQ sc.1472.</p> <p>The screen is on a tripod Projecta, 180x180.</p> <p>Control units of the dental unit for 2 tips and a spray.</p> <p>Blocks of tips "DART 1440".</p> <p>Models of the upper and lower jaw with an articulator.</p> <p>A cupboard for storing sterile instruments.</p> <p>Instruments used in therapeutic, orthopedic and surgical dentistry.</p> <p>Consumables: gypsum, wax, casts, sealing materials, etc.</p> <p><u>Information stands and expositions:</u></p> <ul style="list-style-type: none"> – information stand in Russian and English; – visual aids, posters, models.
Computer classroom	Not provided	
Self-studies classroom	Classrooms 249, 250, 251, 252, 253 in ATI building. Classrooms 232-235 in GUM-SOC building, Classrooms equipped with a set of specialized furniture and computers with access to EIOS. Halls. The scientific library in the Main building of the RUDN.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY.

Main reading (sources):

1. A.J.E. Qualtrough, J.D. Satterthwaite, L.A. Morrow, P.A. Brunton. Principles of Operative Dentistry. б.м. : Blackwell Publishing, 2005. ISBN-13: 978-1-4051-1821-7.
2. Hospital, C. F. (2009). Advanced Endodontics. Dharwad, India: R Nageswar Rao.
3. B. Suresh Chandrs, V. (2014). Grossman's Endodontic practice (изд. 13). Chennai, India: Wolters Kluwer Health.
4. ESRA Learning Zone. [В Интернете] 2007 г. <http://www.esra-learning.com/>.

Additional (optional) reading (sources):

1. Shillingburg, H. T. (2012). Fundamentals of Fixed Prosthodontics. (L. Huffman)
2. B. Suresh Chandra, V. Gopikrishna. Grossman's ENDODONTIC PRACTICE. 13. б.м. : Wolters Kluwer, 2014
3. Malamed, Stanley F. Handbook of local anesthesia. 4. б.м. : Mosby, 1997.

Internet-(based) sources:

1. Electronic libraries with access for RUDN students:

- Electronic library system RUDN <http://lib.rudn.ru/MegaPro/Web>
- ELS « University Library Online » <http://www.biblioclub.ru>
- ELS Yurayt <http://www.biblio-online.ru>
- ELS «Student's Consultant » www.studentlibrary.ru
- ELS «Lan» <http://e.lanbook.com/>
- ELS « Troitsky most»

2. Databases and search engines:

- electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
- the Yandex search engine <https://www.yandex.ru/>
- the Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Learning toolkits for self- studies in the RUDN LMS TUIS

1. A course of lectures and presentations on the discipline "Propaedeutics of dental diseases".

№	Lecture topics
1	Examination of the patient in the practice of a dentist. Medical documentation.
2	The concept of caries, pathogenesis, classification. Methods of treatment and stages of treatment. Isolation of the operating field.
3	Dissection of cavities of class I according to Black and class VI. Restoration with various materials. Complications, their prevention.

4	Dissection of cavities of the V class according to Black. Restoration with various materials. Mistakes and complications, their prevention.
5	Dissection of cavities of class II according to Black. Restoration with various materials. Mistakes and complications, their prevention.
6	Dissection of cavities of class III according to Black. Restoration with various materials. Mistakes and complications, their prevention.
7	Dissection of cavities of class IV according to Black. Restoration with various materials. Mistakes and complications, their prevention.
8	The concept of endodontics, periodontitis, periodontitis. The pulp of the tooth. Methods of treatment of pulpitis. Stages of endodontic treatment. The concept of “opening” and opening of the tooth cavity. Mistakes in the opening of the tooth cavity and their prevention.
9	Endodontic tools. Types of movement of instruments in the channel. Methods for determining the working length of the root canal. Mistakes in determining the working length.
10	A standardized method of root canal treatment. Medicinal products for root canal treatment. Methods of chemical expansion of root canals. Mistakes in mechanical and medical treatment of the root canal.
11	The “step-back” and “crown-down” methods. Mistakes in mechanical and medical treatment of the root canal.
12	Devitalizing (necrotizing) agents. Impregnation methods of pulpitis treatment. Mistakes and complications in the impregnation methods of pulpitis treatment.
13	Methods of root canal obturation. The technique of filling root canals with one paste and the method of one (central) pin. Mistakes and complications, their prevention.
14	Methods of root canal obturation. The method of lateral and vertical condensation. Mistakes and complications, their prevention.
15	Biomechanics of lower jaw movements. The concept of the dental, alveolar and basal arches. Occlusion, types of bite. Definition of central occlusion, signs.
16	Biomechanics of lower jaw movements. The concept of an occlusal surface and an occlusal plane. Articulation and dynamic occlusion. Paths and angles during movements of the mandible in various planes. Occludator, application. Articulator, application.
17	Indications for the use of tabs. Features of preparation of the tooth under the tab. Methods of making tabs.
18	Types of artificial crowns. Features of preparation of teeth for stamped crowns. Clinical and laboratory stages of manufacturing a stamped crown.
19	Indications and contraindications for orthopedic treatment of defects in the crown of the tooth and dentition with cast, metal-ceramic, metal-plastic non-removable structures. Materials. Features of dental odontopreparation for cast, metal-ceramic, metal-plastic crowns. Gum retraction, types. Two-layer impression (impression). The concept of “ledge”, its purpose, types.
20	Cast crowns with plastic and ceramic cladding. Requirements for the frame of such structures and cladding material. Technological features in the manufacture of metal-plastic and metal-ceramic dentures. The method of manufacturing temporary (replacement) structures. Features of odontopreparation of teeth for an all-ceramic crown. Clinical and laboratory stages of manufacturing of all-ceramic structures.
21	Indications for the treatment of dental defects with bridges, materials. Features of dental preparation in the manufacture of bridges. Clinical and laboratory stages of manufacturing.

22	Pin designs: standard and individually made. Clinical and laboratory stages of manufacturing.
23	Anatomical and topographic features of the structure and innervation of the upper and lower jaw. Anesthetics. Instruments for injection anesthesia. Types of local anesthesia in dentistry. Peripheral (application and infiltration) anesthesia. Types and methods of conducting. Indications for use.
24	Methods and methods of conducting conduction anesthesia on the upper jaw.
25	Methods and techniques of conducting conductive anesthesia on the lower jaw.
26	Indications and contraindications for tooth extraction surgery. The stages of tooth extraction. Features of the structure of forceps for the operation of removing teeth of the upper and lower jaw. Methods of holding forceps.
27	Tools, methods and features of tooth extraction and their roots on the upper jaw. The position of the doctor and the patient.
28	Tools, methods and features of tooth extraction and their roots on the lower jaw. The position of the doctor and the patient.
29	The technique of removing the roots of teeth on the upper and lower jaw using elevators and a drill. Wound treatment after complex tooth extraction and care for it.
30	General and local complications of local anesthesia and tooth extraction surgery. The reasons and tactics of the dentist.

1. Lab works on the discipline "Propaedeutics of dental diseases".
2. Methodological guidelines for the implementation of course work on the discipline "Propaedeutics of dental diseases".
3. Educational materials and workbooks on all topics of the discipline "Propaedeutics of dental diseases".
4. Glossary and other educational materials.

Learning toolkits for self- studies in the RUDN LMS TUIS!

8. ASSESSMENT MATERIALS AND A POINT-RATING SYSTEM FOR ASSESSING THE LEVEL OF COMPETENCE FORMATION IN THE DISCIPLINE "PROPATDEUTICS OF DENTAL DISEASES"

Evaluation materials and a point-rating system for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Propaedeutics of dental diseases" are presented in the application to this Work Program of the discipline.

DEVELOPERS:

Senior lecturer of the Department
of Propaedeutics of Dental
Diseases,

Manvelyan A.S.

Candidate of Medical Sciences

Position, grade

Signature

Name

Main lecturer of the Department

Gurieva Z.A.

of Propaedeutics of Dental
Diseases,

Candidate of Medical Sciences

Position, grade

Signature

Name

HEAD OF THE DEPARTMENT:

Head of the Department of
Propaedeutics of Dental
Diseases, Doctor of Medical
Sciences., Professor

Razumova S.N.

Position, grade

Signature

Name

HEAD OF THE HIGHER EDUCATION PROGRAM:

Deputy Director of the Medical
Institute, Professor

Razumova S.N.

Position, grade

Signature

Name