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Federal State Autonomous Educational Institution for Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
(RUDN University)

Medical Institute

(name of the main educational unit)

THE WORK PROGRAM OF THE DISCIPLINE
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)

2026 г.

1. 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.

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: GPC-5, PC-1, PC-2, PC-7.

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

| Competence code | Competence descriptor | Competence formation indicators (within this course) |
|------------------------|---|---|
| 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 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-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 | All dental clinical disciplines |

| Competence code | Competence descriptor | Previous courses/modules* | Subsequent courses/modules* |
|-----------------|---|---|---------------------------------|
| | | maxillofacial region. Medical Informatics. | |
| 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 organizational and managerial activities | 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 |

* 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 7 credits (252 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 |
| Contact academic hours | 140 | 68 | 72 |
| <i>Including:</i> | | | |
| Lectures (LC) | - | - | - |
| Lab work (LW) | 140 | 68 | 72 |
| Seminars (workshops/tutorials) (S) | - | - | - |
| Self-studies | 112 | 58 | 54 |
| Evaluation and assessment (exam/passing/failing grade) | 45 | 27 | 18 |
| Course workload | academic hours | 252 | 126 |
| | credits | 7 | 4 |

* 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: Propaedeutics of therapeutic dentistry. | 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. Rules for filling the dental formula. | LW |
| | 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. | LW |

| Course module title | Course module contents (topics) | Academic activities types |
|---------------------|--|---------------------------|
| | Possible errors and complications, their prevention. | |
| | 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 canal. Errors in determining the working length. | LW |
| | Standardized root canal treatment technique. Stages of endodontic treatment of the root | LW |

| Course module title | Course module contents (topics) | Academic activities types |
|---|---|---------------------------|
| | canal. Medications for root canal treatment. Ways to chemically expand root canals. Errors in mechanical and drug treatment of the root LW, SS canal. | |
| | 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 |
| Module 2 Propaedeutics of orthopedic 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 | LW |

| Course module title | Course module contents (topics) | Academic activities types |
|---------------------|---|---------------------------|
| | inlays. Methods of manufacturing of the inlays (direct, indirect). | |
| | Types of artificial crowns, indications. Requirements for artificial crowns. Special features of tooth preparation for the swaged crowns, instruments. Clinical and laboratory stages of swaged crowns manufacturing. | LW |
| | 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. | LW |
| | 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. | LW |
| | 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 | LW |

| Course module title | Course module contents (topics) | Academic activities types |
|---|---|---------------------------|
| | manufacturing | |
| | Post construction. Standard and individual manufacture. Clinical and laboratory stages of manufacturing. | LW |
| | Colloquium 1. | LW |
| Module 3 Propaedeutics of surgical dentistry. | Anatomic and topographic features of structure and innervation of the upper and lower jaws. Anesthetics. Instruments for injective anesthesia. Types of local anesthesia in dentistry. Peripheral (infiltrative and application) anesthesia. Types, methods, indications. | LW |
| | 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 | 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-work/Seminar | Classrooms are located in buildings: ATI and GUM-SOC. In the ATI building: audiences 249, 250, 251, 252 (the phantom class) и 253. In the GUM-SOC building: audiences 232-235 (the phantom class). | <p>A set of specialized furniture.</p> <p><i>Technical support:</i></p> <p>Dental simulation units.</p> <p>DLP Optoma H1 14 Projector.</p> <p>Lenovo Think Centre M71z automated workplace.</p> <p>Laptop Asus X756UVIntel.</p> <p>Projector AcerP1285.</p> <p>Display Elite Screens Spectrum Electric100V.</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 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> <p>– information stand in Russian and English;</p> <p>– visual aids, posters, models.</p> |
| Computer-lab | Not provided | |
| Self-studies | 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. EDUCATIONAL, METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE.

Main readings:

1. A.J.E. Qualtrough, J.D. Satterthwaite, L.A. Morrow, P.A. Brunton. Principles of Operative Dentistry. 6.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 readings:

1. Shillingburg, H. T. (2012). Fundamentals of Fixed Prosthodontics. (L. Huffman)
2. B. Suresh Chandra, V. Gopikrishna. Grossman's ENDODONTIC PRACTICE. 13. 6.м. : Wolters Kluwer, 2014
3. Malamed, Stanley F. Handbook of local anesthesia. 4. 6.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.

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

Evaluation materials and point-rating system* for assessing the level of competence formation (GPC-5, PC-1, PC-2, PC-7) based on the results of mastering the discipline « Propaedeutics of dental diseases» are presented in the Appendix to this Work Program of the discipline.

* 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,
Candidate of Medical Sciences

Manvelyan A.S.

Position, grade

Signature

Name

Main lecturer of the Department
of Propaedeutics of Dental Diseases,
Candidate of Medical Sciences

Gurieva Z.A.

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