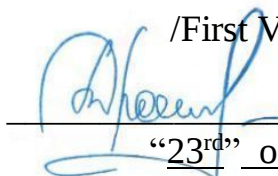


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Federal State Budget Educational Institution  
of Higher Education  
Pacific State Medical University  
of the Ministry of Health of the Russian Federation

APPROVED BY

/First Vice-Rector



/ Dvoynikova E.R./

“23<sup>rd</sup>” of June 2026

## DISCIPLINE WORK PROGRAM

### B1.C.30 Pediatric dentistry

(name of discipline)

**Specialty**

**31.05.03 Dentistry for foreign  
students (English-language program)**

(code, name)

**Degree**

Specialist's degree

**Profile**

02 "Healthcare"  
(in the field of providing health care in  
patients with dental pathology)

**Mode of study**

Full-time

**Period of mastering the BEP**

**5 years**  
(nominal length of study)

**Institute**

of Dentistry

Vladivostok, 2026

Program of the discipline **B1.C.30 Pediatric dentistry** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 984 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for foreign students (English-language program), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia Report No. 1-7/25-26 dated March 27, 2026.

Work program for the discipline was developed by the writing team of the Institute of Dentistry of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the institute, Doctor of Medical Sciences, Associate professor Pervov Yu.Yu.

**Developed by:**

|                     |                                                       |                |
|---------------------|-------------------------------------------------------|----------------|
| Assistant professor | Candidate of Medical<br>Sciences, Associate professor | Yatsenko A.K.  |
| (position held)     | (academic degree, academic title)                     | (full name)    |
| Senior lecturer     | -                                                     | Dementeva L.E. |
| (position held)     | (academic degree, academic title)                     | (full name)    |
| Assistant           | -                                                     | Andreeva E.V.  |
| (position held)     | (academic degree, academic title)                     | (full name)    |

## 1. GENERAL PROVISIONS

### 1.1. Purpose and Objectives of Mastering B1.C.30 Pediatric dentistry

**The purpose** of mastering the discipline is ensuring readiness for professional activity of a dentist, development of universal, general professional, and professional competencies necessary to provide labor functions outlined in the "Dentist (General Dental Practitioner)" occupational standard.

**Objectives** of mastering the discipline:

1. Developing skills in diagnosing dental diseases and pathological conditions of patients;
2. Developing skills in providing dental care in outpatient and day hospital settings;
3. Developing the ability to participate in solving individual research and applied scientific problems in the field of healthcare and medical sciences in diagnostics, treatment, medical rehabilitation, and disease prevention;
4. Developing the ability to perform a list of works and services for the prevention and treatment of dental diseases in children in accordance with the standard of medical care for malformations of hard dental tissues, dental caries, diseases of the pulp, periodontium, periodontium, as well as diseases of the oral mucosa and lips;
5. Developing skills for conducting planned sanitation and medical examination of the child population, including in organized groups.

## 2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.C.30 Pediatric dentistry** is included in the Compulsory part of the Block 1 of the basic educational program for the specialty 31.05.03 Dentistry for foreign students (English-language program), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), and is part of the 7th, 8th, and 9th semesters' curriculum.

## 3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.C.30 Pediatric dentistry** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

| Name of competency category (group) / Labor function | Code and Name of competency of the graduate                                                                             | Competency Indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Professional Competencies</b>             |                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Diagnosis and treatment                              | GPC-5. Able to examine a patient and make a diagnosis                                                                   | AI.GPC-5 <sub>1</sub> - examines the patient using clinical, laboratory and special instrumental methods<br>AI.GPC-5 <sub>2</sub> - provides a comprehensive evaluation to determine the overall health and functionality of organs and systems to decide if there are no contraindications that might preclude complex and reconstructive dental manipulations<br>AI.GPC-5 <sub>3</sub> - evaluates the results of the exam to make a diagnosis                                      |
|                                                      | GPC-6. Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies | AI.GPC-6 <sub>1</sub> - creates a treatment plan, administers dosages of medication as well as non-pharmacological treatment regimens adhering to treatment requirements<br>AI.GPC-6 <sub>2</sub> - monitors therapy effectiveness and adjusts treatment regimens as necessary, utilizes various forms of medication tailored to specific dental treatments<br>AI.GPC-6 <sub>3</sub> - identifies contraindications and potential adverse events related to medication administration |
| <b>Professional Competencies</b>                     |                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A/01.7 Patient examination. Making a diagnosis                                                                                         | PC-1 ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                     | AI. PC-1 <sub>1</sub> - identifies basic pathologic conditions, symptoms, syndromes in patients with dental diseases<br>AI. PC-1 <sub>2</sub> - interprets and evaluates the information received from patients (their relatives/legal representatives), primary and re-examination data, as well as laboratory and instrumental investigations in patients with dental diseases<br>AI. PC-1 <sub>3</sub> - applying the methods of digital computerized and hardware diagnostics of dental diseases                             |
| A/02.7 Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                    | PC-2 ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment | AI. PC-2 <sub>1</sub> - develop treatment plans for dental patients aligning with clinical recommendations, treatment protocols, and medical care procedures and health care standards<br>AI. PC-2 <sub>2</sub> - demonstrates proficiency in administering non-pharmacological and pharmacological therapies and other treatment methods to dental patients, monitors the efficacy and safety of these methods<br>AI. PC-2 <sub>3</sub> - proficiently uses modern methods and/or digital technologies to treat dental diseases |
| A/04.7 Implementing and monitoring the effectiveness of sanitary, anti-epidemic and other preventive measures to protect public health | PC-4 ability and readiness to conduct preventive medical examinations, dispensary exam and dispensary follow-up of patients with dental pathology                         | AI. PC-4 <sub>1</sub> - identifies the principles of outpatient observation for different patient categories and population groups with oral and maxillofacial diseases.<br>AI. PC-4 <sub>2</sub> - applies methods of primary and secondary prevention of teeth diseases, periodontium, oral mucosa, jaw bone tissue, soft facial tissues, temporomandibular joints, and salivary glands<br>AI. PC-4 <sub>3</sub> - organizes and conducts preventive examinations of patients with dental pathology                            |
| A/05.7 Educating population and medical care providers about hygiene and healthy life style                                            | PC-5 ability to conduct educational activities to eliminate the risk factors for dental health and develop healthy lifestyle skills                                       | AI. PC-5 <sub>1</sub> - recognizes the basic criteria and methods of a healthy lifestyle<br>AI. PC-5 <sub>2</sub> - identifies the methods and forms of hygiene education among the public and health care providers<br>AI. PC-5 <sub>3</sub> - developing positive health behaviors in patients and their representatives (or relative/legal representatives) that promotes and improves health and well-being                                                                                                                  |

### 3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.C.30 Pediatric dentistry**:

Types of professional activity objectives

1. *Medical*
2. *Research and development*
3. *Pedagogical*

Kinds of professional activity objectives

1. *examination of the patient in order to make a diagnosis;*
2. *prescribing pharmacological and non-pharmacological treatment and monitoring its efficiency and safety;*

3. implementation of anti-epidemic and other measures of public health protection as well as monitoring their effectiveness;
4. implementation of health and hygiene education measures in general population and professionals aimed at development of a healthy lifestyle

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

#### 4. SCOPE AND CONTENT OF THE DISCIPLINE

##### 4.1. Scope of the Discipline and Types of Academic Work

| Type of Academic Work                                   |                    | Total Hours | Semesters  |            |            |
|---------------------------------------------------------|--------------------|-------------|------------|------------|------------|
|                                                         |                    |             | 7          | 8          | 9          |
|                                                         |                    |             | hours      | hours      | hours      |
| 1                                                       |                    | 2           | 3          | 4          | 5          |
| <b>Classroom hours (total), including:</b>              |                    | <b>174</b>  | <b>62</b>  | <b>62</b>  | <b>50</b>  |
| Lectures (L)                                            |                    | 24          | 8          | 8          | 8          |
| Practical classes (C)                                   |                    | 150         | 54         | 54         | 42         |
| <b>Independent work of the student (IW), including:</b> |                    | <b>114</b>  | <b>46</b>  | <b>46</b>  | <b>22</b>  |
| Preparing for classes (CP)                              |                    | 90          | 40         | 40         | 10         |
| Preparing for continuous assessment (CAP)               |                    | 18          | 6          | 6          | 6          |
| Preparation for interim assessment (IAP)                |                    | 6           |            |            | 6          |
| Interim assessment                                      |                    | 36          |            |            | 36         |
| <b>Type of interim assessment</b>                       | pass/fail test (T) |             |            |            |            |
|                                                         | exam (E)           | E           |            |            | E          |
| <b>TOTAL: TOTAL credit value</b>                        | hrs.               | <b>324</b>  | <b>108</b> | <b>108</b> | <b>108</b> |
|                                                         | credits            | <b>9</b>    | <b>3</b>   | <b>3</b>   | <b>3</b>   |

##### 4.2. Contents of the Discipline

##### 4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

| No.            | Lecture Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Hours |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1              | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3     |
| Semester No. 7 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
| 1.             | Conservative branch of pediatric dentistry: study of the clinical manifestations and treatment of dental pathology, diseases of the oral mucosa and periodontium in children. Knowledge of psychology of different age groups of children necessary to establish contact with a child patient during examination or treatment. The child patient, the doctor, and the parents. Medical ethics and deontology. Anatomical and physiological aspects of the structure of the teeth in children. Examination methods in child patients | 2     |
| 2.             | Non-carious pathology of the hard tissues of the teeth occurring prior to their eruption: hypoplasia, dental fluorosis. Etiology, clinical manifestation, differential diagnosis, treatment methods. Non-carious pathology of the hard tissues of the teeth occurring prior to their eruption: hyperplasia, hereditary impairments of                                                                                                                                                                                               | 2     |

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                | dental tissue development, medication- and toxin-associated impairments of dental tissue development. Etiology, clinical manifestation, differential diagnosis, treatment methods                                                                                                                                                                                                                                                                                      |          |
| 3.             | Non-carious pathology of the hard tissues of the teeth occurring after eruption: pathological dental abrasion, abfraction, erosion of enamel, acid-induced necrosis of hard dental tissues, hyperesthesia. Etiology, clinical manifestation, differential diagnosis, treatment methods. Dental injuries. Classification. Diagnostic methods. Impact injury. Luxation. Crown fracture, root fracture. Clinical manifestation, differential diagnosis, treatment methods | 2        |
| 4.             | Classification, clinical manifestation, diagnosis of caries of deciduous teeth in children. Classification, clinical manifestation, diagnosis of caries of permanent teeth in children. Treatment of caries of deciduous and permanent teeth in children. Specifics of stages of treatment of carious cavities. Dental filling materials. Errors and complications in the treatment of caries in children                                                              | 2        |
|                | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>8</b> |
| Semester No. 8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| 1.             | Specifics of anatomy and physiology of the pulp of the deciduous and permanent teeth in children. Etiology, pathogenesis of pulpitis of the deciduous and permanent teeth in children. Classification. Specifics of clinical manifestation of pulpitis of the deciduous and permanent teeth in children of various age groups. Diagnostic methods                                                                                                                      | 2        |
| 2.             | Types of anesthesia used in pediatric dentistry in outpatient setting. Indications, contraindications. Premedication. Errors and complications. Emergency medical aid in outpatient setting. Treatment of pulpitis of the deciduous and permanent teeth in children. Selecting treatment method. Errors and complications in the treatment of pulpitis in children                                                                                                     | 2        |
| 3.             | Specifics of anatomy and physiology of the periodontium of the deciduous and permanent teeth in children. Classification of periodontitis. Periodontitis of the deciduous teeth with incompletely formed roots and fully formed roots: etiology, specifics of clinical manifestation, diagnosis                                                                                                                                                                        | 2        |
| 4.             | Periodontitis of the permanent teeth with incompletely formed roots and fully formed roots: etiology, specifics of clinical manifestation, diagnosis. Treatment of periodontitis of the deciduous and permanent teeth in children. Errors and complications in the treatment of periodontitis in children                                                                                                                                                              | 2        |
|                | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>8</b> |
| Semester No. 9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| 1.             | Specifics of anatomy and physiology of the periodontal ligament in children. Patient examination in child patients with diseases of the periodontal ligament. Classification of the diseases of the periodontal ligament                                                                                                                                                                                                                                               | 2        |
| 2.             | Gingivitis: catarrhal gingivitis, hypertrophic gingivitis, acute necrotizing ulcerative gingivitis. Etiology, pathogenesis, clinical manifestation, diagnosis, treatment                                                                                                                                                                                                                                                                                               | 2        |
| 3.             | Parodontitis: localized, rapidly progressing, aggressive. Etiology, pathogenesis, clinical manifestation, diagnosis, and treatment                                                                                                                                                                                                                                                                                                                                     | 2        |
| 4.             | Parodontitis associated with general diseases, including congenital neutropenia, Langerhans cell histiocytosis (histiocytosis X), diabetes mellitus, palmoplantar keratoderma, hypophosphatasia, hypophosphatemia                                                                                                                                                                                                                                                      | 2        |
|                | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>8</b> |

#### 4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

| No. | Practical Class Topic | Hours |
|-----|-----------------------|-------|
| 1   | 2                     | 3     |

| Semester No. 7 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1              | Conservative branch of pediatric dentistry: study of the clinical manifestations and treatment of dental pathology, diseases of the oral mucosa and periodontium in children. Knowledge of psychology of different age groups of children necessary to establish contact with a child patient during examination or treatment. The child patient, the doctor, and the parents. Medical ethics and deontology. Specifics of examination methods in child patients of various age groups. General examination and visual inspection of the oral cavity in child patients. Dental formula of deciduous and permanent teeth, including according to recommendations of the WHO. Specialized additional examination methods. Aspects of the structure of the deciduous and permanent teeth in children of various age groups. Structure and properties of tooth enamel after their eruption. At-risk areas of the tooth. Assessing the resistance of caries based on the acid tolerance of the enamel. Dependence of resistance of the teeth against caries on the properties of mixed saliva (amount, viscosity, buffer capacity) | 7 |
| 2              | Classification of non-carious pathology. Hereditary impairments of formation and structure of the tissues of the tooth: enamel (amelogenesis imperfecta), dentin (dentinogenesis imperfecta), enamel and dentin (odontogenesis imperfect - Stainton-Capdepon syndrome). Clinical manifestation, differential diagnosis, treatment, prevention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7 |
| 3              | Changes in the hard dental tissues associated with impaired development of dental follicle: hypoplasia of the enamel (systemic, local, focal), various forms of dental fluorosis, staining of dental tissues of other origin. Etiology. Pathogenesis. Clinical manifestations of non-carious pathology of various origins, differential diagnosis, treatment, and prevention.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7 |
| 4              | Pathology of the hard tissues of the teeth occurring after eruption: pathological dental abrasion, acid- and radiation-induced necrosis of enamel, mechanical trauma of teeth in children. Etiology. Pathogenesis. Clinical manifestations of non-carious pathology of various origins, differential diagnosis, treatment, and prevention. Dental injuries: classification. Impact injury; luxation: complete, embedded (impacted), partial; crown fracture, root fracture. Clinical manifestation, differential diagnosis, assessment of the viability of the dental pulp after injury. Treatment of impact injury; luxation, and fracture; methods and timing of monitoring treatment effectiveness, prevention of complications.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                                                                                                    | 7 |
| 5              | Oral caries and its detection methods. General and local risk factors for dental caries development. Stefan's curve, assessment of dental plaque cariogenicity (rapid method for detecting oral caries according to V.A. Rumyantsev, V.K. Leontiev, enamel resistance test (ERT)). Determining tooth resistance to caries based on the degree of caries activity according to Nedoseko. The hygiene index in predicting dental caries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7 |
| 6              | Factors influencing the incidence of dental caries in children. Clinical classification of dental caries in childhood. Clinical forms of caries in primary and permanent teeth, their location and progression, and diagnostic methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 |
| 7              | Treatment methods for caries in various locations in permanent teeth. Remineralizing therapy. Features of preparation and filling of carious cavities in permanent immature teeth in children of different ages. Use of modern technologies in treating caries in children. Errors and complications in treating dental caries in children. Evaluation of long-term results of caries treatment. Methods of preventing caries in deciduous and permanent teeth in children of different ages. Health education in organized groups (organization, forms, methods, means), hygiene education of various population groups. Medical examination of children by a dentist. Principles of organizing medical examination                                                                                                                                                                                                                                                                                                                                                                                                          | 7 |

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                | of infants, preschool and school-age children.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| 8              | Final class session                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6         |
|                | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>54</b> |
| Semester No. 8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| 1              | Anatomical and physiological features of pulp structure in deciduous and permanent teeth in children. Etiology and pathogenesis of pulpitis in deciduous and permanent teeth in children                                                                                                                                                                                                                                                                                                                                                                                                        | 7         |
| 2              | Classification of pulpitis. Clinical features of pulpitis in deciduous and permanent teeth in children of different ages. Diagnostic methods                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7         |
| 3              | Conservative treatment methods for pulpitis in deciduous and permanent teeth in children, treatment stages. Indications and contraindications. Selection of medications. Features of pulpitis treatment in children under anesthesia, medications, absolute and relative indications.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                    | 7         |
| 4              | Devitalization methods for treating pulpitis in deciduous and permanent teeth in children. Devitalization aspects. Indications. Errors and complications in pulpitis treatment.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                                                                                                                          | 7         |
| 5              | Periodontitis. Periodontal structure of immature teeth and deciduous teeth during root resorption. Classification of periodontitis. Acute and chronic forms of periodontitis – clinical features in children. The impact of chronic inflammation at the roots of deciduous teeth on the development of permanent teeth. Chronic granulating osteitis: clinical features and changes in the surrounding tissues, visible on radiographs                                                                                                                                                          | 7         |
| 6              | Differential diagnosis of acute infectious periodontitis with acute diffuse pulpitis, chronic periodontitis in the acute stage, periostitis, and osteomyelitis of the jaws. Treatment methods for periodontitis of primary teeth in children. Indications for tooth extraction in chronic periodontitis. Radiographic characteristics of changes in the growth plate and periapical tissues in complicated forms of caries in permanent teeth in children with immature and mature roots                                                                                                        | 7         |
| 7              | Features of endodontics for immature teeth with chronic periodontitis. Treatment features and tactics aimed at apexogenesis and apexification. Selection of filling materials for root canal filling in deciduous and permanent teeth. Use of calcium-containing preparations in the treatment of complicated forms of caries in permanent teeth with immature roots. Impregnation treatment methods. Errors and complications in diagnosis and treatment. Criteria for the effectiveness of treatment of deciduous and permanent teeth.<br>Practical training – practical skills demonstration | 6         |
| 8              | Final class session                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6         |
|                | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>54</b> |
| Semester No. 9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| 1              | Periodontal ligament. Specifics of anatomy and physiology of the periodontal ligament in children. Etiology and pathogenesis of diseases of the periodontal ligament in children                                                                                                                                                                                                                                                                                                                                                                                                                | 7         |
| 2              | Classification. Clinical presentation, diagnostics, and differential diagnostics of diseases of the periodontal ligament in children                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7         |
| 3              | Changes in the periodontal ligament due to pathology of internal organs, metabolic disorders, and other systemic diseases                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7         |
| 4              | Treatment of diseases of the periodontal ligament in children of various ages.<br>Practical training – practical skills demonstration                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7         |
| 5              | Prevention of diseases of the periodontal ligament in children                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7         |
| 6              | Final class session. Working with case studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7         |

|  |                                 |           |
|--|---------------------------------|-----------|
|  | <b>Hours per semester total</b> | <b>42</b> |
|--|---------------------------------|-----------|

#### 4.2.3. Independent Work of the Student

| No.           | Name of the Discipline Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Type of IW                                                                | Total Hours |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------|
| 1             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                                                                         | 5           |
| Semester No 7 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |             |
| 3             | Aspects of the structure of the deciduous and permanent teeth in children of various age groups. Structure and properties of tooth enamel after their eruption. At-risk areas of the tooth. Assessing the resistance of caries based on the acid tolerance of the enamel. Dependence of resistance of the teeth against caries on the properties of mixed saliva (amount, viscosity, buffer capacity). Specifics of examination methods in child patients of various age groups. General examination and visual inspection of the oral cavity in child patients. Dental formula of deciduous and permanent teeth, including according to recommendations of the WHO. Specialized additional examination methods | Writing a report on select questions, preparing for continuous assessment | 8           |
|               | Hereditary impairments of formation and structure of the tissues of the tooth: enamel (amelogenesis imperfecta), dentin (dentinogenesis imperfecta), enamel and dentin (odontogenesis imperfect - Stainton-Capdepon syndrome). Changes in the hard dental tissues associated with impaired development of dental follicle: hypoplasia of the enamel (systemic, local, focal), various forms of dental fluorosis, staining of dental tissues of other origin. Etiology. Pathogenesis. Clinical manifestations of non-caries pathology of various origins, differential diagnosis, treatment, and prevention                                                                                                      |                                                                           | 8           |
|               | Dental injuries: classification. Impact injury; luxation: complete, embedded (impacted), partial; crown fracture, root fracture. Clinical manifestation, differential diagnosis, assessment of the viability of the dental pulp after injury. Treatment of impact injury; luxation, and fracture; methods and timing of monitoring treatment effectiveness, prevention of complications                                                                                                                                                                                                                                                                                                                         |                                                                           | 7           |
|               | General and local risk factors for dental caries development. Stefan's curve, assessment of dental plaque cariogenicity (rapid method for detecting oral caries according to V.A. Rumyantsev, V.K. Leontiev, enamel resistance test (ERT)). Determining tooth resistance to caries based on the degree of caries activity according to Nedoseko. The hygiene index in predicting dental caries. Clinical forms of caries in deciduous and permanent teeth, localization and progression characteristics, and diagnostic methods                                                                                                                                                                                 |                                                                           | 7           |
|               | Treatment methods for caries in various locations in deciduous teeth. Remineralizing therapy; use of silver nitrate, etc. Features of preparation and filling of carious cavities in deciduous teeth. Use of modern technologies in treating caries in children                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           | 7           |
|               | Errors and complications in treating dental caries in children. Evaluation of long-term results of caries treatment. Methods of preventing caries in deciduous and permanent teeth in children of different ages. Health education in organized groups                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           | 9           |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------|
|               | (organization, forms, methods, means), hygiene education of various population groups. Medical examination of children by a dentist. Principles of organizing medical examination of infants, preschool and school-age children                                                                                                                                                                                                                                                                                                         |                                                                           |           |
|               | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           | <b>46</b> |
| Semester No 8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |           |
| 4             | Classification of pulpitis. Clinical features of pulpitis in deciduous and permanent teeth in children of different ages. Diagnostic methods                                                                                                                                                                                                                                                                                                                                                                                            | Writing a report on select questions, preparing for continuous assessment | 7         |
|               | Treatment of pulpitis in deciduous and permanent teeth in children. Conservative treatment methods for pulpitis in deciduous and permanent teeth in children, treatment stages. Indications and contraindications.                                                                                                                                                                                                                                                                                                                      |                                                                           | 8         |
|               | Devitalization methods for treating pulpitis in deciduous and permanent teeth in children. Devitalization aspects. Indications. Errors and complications in pulpitis treatment                                                                                                                                                                                                                                                                                                                                                          |                                                                           | 7         |
|               | Periodontitis. Periodontal structure of immature teeth and deciduous teeth during root resorption. Classification of periodontitis. Acute and chronic forms of periodontitis – clinical features in children. The impact of chronic inflammation at the roots of deciduous teeth on the development of permanent teeth. Chronic granulating osteitis: clinical features and changes in the surrounding tissues, visible on radiographs                                                                                                  |                                                                           | 8         |
|               | Treatment methods for periodontitis of primary teeth in children. Indications for tooth extraction in chronic periodontitis. Radiographic characteristics of changes in the growth plate and periapical tissues in complicated forms of caries in permanent teeth in children with immature and mature roots                                                                                                                                                                                                                            |                                                                           | 8         |
|               | Features of endodontics for immature teeth with chronic periodontitis. Treatment features and tactics aimed at apexogenesis and apexification. Selection of filling materials for root canal filling in deciduous and permanent teeth. Use of calcium-containing preparations in the treatment of complicated forms of caries in permanent teeth with immature roots. Impregnation treatment methods. Errors and complications in diagnosis and treatment. Criteria for the effectiveness of treatment of deciduous and permanent teeth |                                                                           | 8         |
|               | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           | <b>46</b> |
| Semester No 9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |           |
| 5             | Specifics of anatomy and physiology of the periodontal ligament in children.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Writing a report on select questions, preparing for continuous assessment | 5         |
|               | Etiology and pathogenesis of diseases of the periodontal ligament in children                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           | 4         |
|               | Classification. Clinical presentation, diagnostics, and differential diagnostics of diseases of the periodontal ligament in children                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           | 5         |
|               | Changes in the periodontal ligament due to pathology of internal organs, metabolic disorders, and other systemic diseases                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           | 4         |

|  |                                                                                                                                               |  |           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|
|  | Treatment of diseases of the periodontal ligament in children of various ages. Prevention of diseases of the periodontal ligament in children |  | 4         |
|  | <b>Hours per semester total</b>                                                                                                               |  | <b>22</b> |

## 5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

### 5.1. Discipline Requirements for Educational Materials and Provided Information

#### Essential reading

| No. | Name/Title, Resource Type                                                                 | Author(s)/Editor                                                                                         | Publisher Imprint, Web Address                                                                                  | Number of Copies (accesses) in the Library and Information Center |
|-----|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1   | 2                                                                                         | 3                                                                                                        | 4                                                                                                               | 5                                                                 |
| 1   | Pediatric Dentistry: Textbook [Electronic resource]                                       | edited by Yanushevich O.O., Kiselnikova L.P., Topolnitsky O.Z.                                           | M.: GEOTAR-Media, 2020. - 744 p. URL: <a href="http://www.studentlibrary.ru/">http://www.studentlibrary.ru/</a> | Unlimited access                                                  |
| 2   | Pediatric Dentistry. A Guide to Practical Training: A Textbook [Electronic Resource]      | L. P. Kiselnikova, S. Yu. Strakhova, T. E. Zueva [et al.]; edited by L. P. Kiselnikova, S. Yu. Strakhova | M.: GEOTAR-Media, 2022. - 352 p. URL: <a href="http://www.studentlibrary.ru/">http://www.studentlibrary.ru/</a> | Unlimited access                                                  |
| 3   | Pediatric Dentistry: A Textbook [Electronic Resource]                                     | edited by Mamedov Ad.A. , Geppe N.A.                                                                     | M.: GEOTAR-Media, 2020. - 184 p. URL: <a href="http://www.studentlibrary.ru/">http://www.studentlibrary.ru/</a> | Unlimited access                                                  |
| 4   | Therapeutic Dentistry for 4th-year students = Therapeutic dentistry For 4th year students | N. E. Kolchanova , A. A. Pozharitskaya , Yu. P. Chernyavsky, N. A. Baitus                                | Vitebsk: VSMU, 2020. - 262 p. - Electronic Library System " BookUp"                                             | Unlimited access                                                  |

#### Supplementary reading

| No. | Name/Title, Resource Type                                                                                      | Author(s)/Editor                                                | Publisher Imprint, Web Address                                                                                  | Number of Copies (accesses) in the Library and Information Center |
|-----|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1   | 2                                                                                                              | 3                                                               | 4                                                                                                               | 5                                                                 |
| 1   | Atlas of dental diseases in children: a textbook [Electronic resource]                                         | T. F. Vinogradova                                               | M.: MEDpress- inform, 2021. - 168 p. URL: <a href="http://books-up.ru/">http://books-up.ru/</a>                 | Unlimited access                                                  |
| 2   | Technologies for the prevention and treatment of dental caries in children: a textbook [Electronic resource]   | L. P. Kiselnikova, T. E. Zueva, A. G. Sedoykin , L. N. Drobotko | M.: GEOTAR-Media, 2021. - 184 p. URL: <a href="http://www.studentlibrary.ru/">http://www.studentlibrary.ru/</a> | Unlimited access                                                  |
| 3   | Community Dentistry = Communal dentistry : methodical developments for the 5th year students of Dental Faculty | T. I. Pershukevich , N. A. Baitus , Yu. P. Chernyavsky          | Vitebsk: VSMU, 2020. - 187 p. - Electronic Library System " BookUp "                                            | Unlimited access                                                  |

|   |                                                                    |                                          |                                                             |                  |
|---|--------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|------------------|
| 4 | Preclinical course of dentistry. Part III. Endodontology: textbook | Edited by A. V. Sevbitov, A. E. Dorofeev | M.: GEOTAR-Media, 2025. - 168 p. - EBS "Student Consultant" | Unlimited access |
|---|--------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|------------------|

#### Online resources

1. Electronic library system "Student Consultant" <http://studmedlib.ru/>
2. Electronic library system "University Library Online" <http://www.biblioclub.ru/>
3. Electronic library system "Urait" <https://urait.ru/>
4. Electronic library system "BookUp" <https://www.books-up.ru/>
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia <https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/>

Online resources and respective user guides are available on the Library and Information Center website [Library and Information Center — PSMU \(tgmu.ru\)](http://tgmu.ru)



### 5.2. Discipline Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the [Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia \(tgmu.ru\)](http://tgmu.ru) page of the official website of the university.



### 5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

## 6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

### 6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

### 6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

## 7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the **31.05.03 Dentistry** specialty; list of the aforementioned personnel is available on the website of the educational organization.



## 8. TUTORIAL WORK

| Type of tutorial work         | Forms and approaches to tutorial work                                                                                                                                                                                                                                 | Assessment criteria |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Assistance in personal growth | Overt<br>Talks and problem-centric debates aimed at promotion of healthy lifestyle.<br>Participation in interdepartmental conferences aimed at formation of healthy lifestyle and development of skills necessary to preserve and improve health.                     | Portfolio           |
|                               | Covert – creating atmosphere and infrastructure.<br>Developing a culture of healthy lifestyle, the ability to preserve and improve health.<br>Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline. |                     |
| Civic position and values     | Overt<br>Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks).<br>Short discussions on current significant events in case the latter occur.                                                        | Portfolio           |
|                               | Covert<br>Focusing on civic values-oriented position and legal awareness.<br>Cultivating mindful social position during professional activity.                                                                                                                        |                     |
| Social values                 | Overt<br>Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies.<br>Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks.                      | Portfolio           |
|                               | Covert<br>Identification in social structure during period of education and in professional activity.                                                                                                                                                                 |                     |