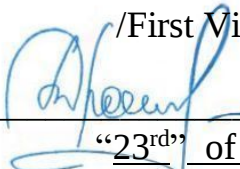


Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Стегний Кирилл Владимирович
Должность: И.о. ректора
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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY

/First Vice-Rector

 / Dvoynikova E.R./
"23rd" of June 2026

DISCIPLINE WORK PROGRAM

B1.C.31 Orthodontics and children's prosthetics

(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.31 Orthodontics and children's prosthetics** 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 Sciences, Associate professor	Ignatiev S.V.
(position held)	(academic degree, academic title)	(full name)
Assistant	-	Dekhтерева V.A.
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Assistant	-	Opryshko Y.A.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering B1.C.31 Orthodontics and children's prosthetics

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 skills of participation in medical rehabilitation and health resort treatment of patients with dental diseases.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.C.31 Orthodontics and children's prosthetics** 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, and 8th semesters' curriculum.

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.C.31 Orthodontics and children's prosthetics** 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
General Professional Competencies		
Diagnosis and treatment	GPC-5. Able to examine a patient and make a diagnosis	AI.GPC-5 ₁ - examines the patient using clinical, laboratory and special instrumental methods AI.GPC-5 ₂ - 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 AI.GPC-5 ₃ - 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 ₁ - creates a treatment plan, administers dosages of medication as well as non-pharmacological treatment regimens adhering to treatment requirements AI.GPC-6 ₂ - monitors therapy effectiveness and adjusts treatment regimens as necessary, utilizes various forms of medication tailored to specific dental treatments AI.GPC-6 ₃ - identifies contraindications and potential adverse events related to medication administration
Professional Competencies		
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 ₁ - identifies basic pathologic conditions, symptoms, syndromes in patients with dental diseases AI.PC-1 ₂ - 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 AI.PC-1 ₃ - 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 ₁ - develop treatment plans for dental patients aligning with clinical recommendations, treatment protocols, and medical care procedures and health care standards AI.PC-2 ₂ - demonstrates proficiency in administering non-pharmacological and pharmacological therapies and other treatment methods to dental patients, monitors the efficacy and safety of these methods AI.PC-2 ₃ - proficiently uses modern methods and/or digital technologies to treat dental diseases
A/03.7 Developing, implementing and monitoring the individual rehabilitation programs effectiveness	PC-3 ability to develop, implement and improve the effectiveness of rehabilitation programs for dental patients	AI. PC-3 ₁ - identifies the basic rehabilitation principles of patients with maxillofacial diseases AI. PC-3 ₂ - formulates indications and contraindications for rehabilitation measures to be used for various oral cavity diseases and pathological conditions AI. PC-3 ₃ - knows the methods of complex dental patients' rehabilitation, considering the patient's overall health and comorbidity

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.C.31 Orthodontics and children's prosthetics**:

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;*

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
		hours	hours
1	2	3	4

Classroom hours (total), including:		116	62	54
Lectures (L)		26	14	12
Practical classes (C)		90	48	42
Independent work of the student (IW), including:		64	46	18
<i>Preparing for classes (CP)</i>		46	40	6
<i>Preparing for continuous assessment (CAP)</i>		12	6	6
<i>Preparation for interim assessment (IAP)</i>		6		6
Interim assessment		36		36
Type of interim assessment	pass/fail test (T)			
	exam (E)	E		E
TOTAL: TOTAL credit value	hrs.	216	108	108
	credits	6	3	3

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.	Introduction to the specialty. Morphological characteristics of the periods of bite development. Functional characteristics of the periods of bite development. Classification of dentoalveolar anomalies	2
2.	Diagnosis of dental anomalies. Methods of examining orthodontic patients. Completing an orthodontic chart	2
3.	Biomechanics in Orthodontics. Morphological changes in periodontal tissues during orthodontic treatment	2
4.	Etiology of dental anomalies. Prevention of dental anomalies	2
5.	Methods of treatment of dental anomalies	2
6.	Methods of treatment of dental anomalies	2
7.	Classification of orthodontic appliances. Hardware-based treatment methods	2
	Hours per semester total	14
Semester No. 8		
1.	Etiology, classification, diagnostics, clinical picture and treatment of anomalies of individual teeth, anomalies of tooth position and deformation of dental arches	2
2.	Etiology, classification, clinical picture, diagnosis and treatment of various forms of distal occlusion	2
3.	Etiology, classification, clinical picture, diagnosis and treatment of various forms of mesial occlusion	2
4.	Etiology, classification, clinical picture, diagnosis and treatment of various forms of open and deep bite	2
5.	Etiology, classification, clinical picture, diagnosis and treatment of various forms of crossbite	2
6.	Children's dental prosthetics. Orthodontic care for children with congenital maxillofacial abnormalities	2
	Hours per semester total	12

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	Morphological characteristics of the periods of bite development. Morphological features characterizing the norm during six periods of occlusion development (embryonic, edentulous, deciduous, mature deciduous, mixed, and permanent). Functional characteristics of the periods of occlusion development. Normal functional functions characteristic of different periods of dental growth	8
2	Classification of dentofacial anomalies. The need for classification of dental anomalies and requirements for their systematization. Classifications of Angle, Katz, Kantorovich, Kalvelis, Persin, and the WHO; their advantages and disadvantages	7
3	Diagnosis of morphological and functional disorders in dentoalveolar anomalies. Anthropometric diagnostic methods. Practical training – practical skills demonstration	7
4	Radiographic methods. Functional methods. Practical training – practical skills demonstration	7
5	Orthodontic treatment methods. Functional treatment methods. Surgical treatment. Practical training – practical skills demonstration	7
6	Apparatus (device) method. Combined treatment methods. Practical training – practical skills demonstration	6
7	Etiology of dentoalveolar anomalies. Prevention of dentoalveolar anomalies. Morphofunctional restructuring of the dentoalveolar system under the influence of orthodontic appliances. Practical training – demonstration of practical skills	6
	Hours per semester total	48
Semester No. 8		
1	Etiology, classification, clinical presentation, diagnosis, and treatment of anomalies of individual teeth and dental arches. Practical training – practical skills demonstration	7
2	Etiology, classification, clinical picture, diagnosis and treatment of various forms of distal occlusion. Practical training – practical skills demonstration	7
3	Etiology, classification, clinical picture, diagnosis and treatment of various forms of mesial occlusion. Practical training – practical skills demonstration	7
4	Etiology, classification, clinical picture, diagnosis and treatment of various forms of open and deep bite. Practical training – practical skills demonstration	7
5	Etiology, classification, clinical picture, diagnosis and treatment of various forms of crossbite. Practical training – practical skills demonstration	7
6	Pediatric dental prosthetics. Classification of dental crown and arch defects in children. Purpose of prosthetics, characteristics, and general requirements for prosthetic devices. Indications for use, design features, and replacement timeframes. Interaction between an orthodontist and other specialists in planning comprehensive rehabilitation for dental patients. Orthodontic care for children with congenital maxillofacial pathology. Key treatment goals at different age stages. The need for a comprehensive approach involving various specialists. Orthodontic devices with a detailed analysis of the clinical and technical stages of their manufacture. Timeframes for use and replacement of orthodontic devices. Practical training – practical skills demonstration	7

	Hours per semester total	42
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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			
1	Morphological characteristics of the periods of occlusion development. Morphological features characterizing the norm in six periods of occlusion development (embryonic, edentulous, deciduous, mature deciduous, mixed, and permanent). Functional characteristics of the periods of occlusion development. Normal functional functions characteristic of different periods of dentition growth	Writing a report on select questions, preparing for continuous assessment	10
	Classification of dentofacial anomalies. The need for classification of dental anomalies and requirements for their systematization. Classifications of Angle, Katz, Kantorovich, Kalvelis, Persin, and the WHO; their advantages and disadvantages		8
	Diagnosis of morphological and functional disorders in dentoalveolar anomalies. Anthropometric diagnostic methods. Radiographic methods. Functional methods		10
	Treatment methods in orthodontics. Functional treatment methods. Surgical treatment. Apparatus (device) method. Combined treatment methods		10
	Etiology of dentoalveolar anomalies. Prevention of dentoalveolar anomalies. Morphofunctional restructuring of the dentoalveolar system under the influence of orthodontic appliances		8
	Hours per semester total		46
Semester No 8			
2	Etiology, classification, clinical picture, diagnosis and treatment of various forms of crossbite	Writing a report on select questions, preparing for continuous assessment	4
	Children's dental prosthetics. Classification of dental crown and arch defects in children. Purpose of prosthetics, characteristics, and general requirements for prosthetic structures. Indications for use, design features, and replacement timeframes		4
	Collaboration between orthodontists and other specialists in planning comprehensive rehabilitation for dental patients. Orthodontic care for children with congenital maxillofacial pathology. Key treatment goals at different age stages. The need for a comprehensive approach involving various specialists		6
	Orthodontic devices with a detailed analysis of the clinical and technical stages of their manufacture. Use and replacement periods for orthodontic appliances		4
	Hours per semester total		18

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	Orthodontics. Diagnosis and treatment of dentofacial anomalies and deformities : textbook [Electronic resource]	L.S. Persin [et al.]	M. : GEOTAR-Media, 2022. - 640 p. URL: http://studentlibrary.ru	Unlimited access
2	Orthodontics. Diagnostics and functional methods of prevention and treatment of dentofacial anomalies: textbook . p individual [Electronic resource]	F.Ya. Khoroshilkina ; edited by E.A. Bazikyan	M. : Litterra , 2022. - 552 p. URL: http://studentlibrary.ru	Unlimited access
3	Orthodontics. Modern Methods of Diagnosing Dental Abnormalities, Dentition and Occlusion : tutorial	L.S. Persin [et al.]	M. : GEOTAR-Media, 2021. - 160 p. - EBS "Student Consultant"	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	Orthodontics. Modern methods for diagnosing dental anomalies, dental arches, and occlusion [Electronic resource]	L.S. Persin	M. : GEOTAR-Media, 2017. - 160 p. URL: http://www.studentlibrary.ru	Unlimited access
2	Fundamentals of orthodontics: textbook . p individual [Electronic resource]	A.S. Ivanov, A.I. Lesit , L.N. Soldatova	St. Petersburg . : SpetsLit , 2017. - 223 p. URL: http://books-up.ru/	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://Library and Information Center — PSMU (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 Talks and problem-centric debates aimed at promotion of healthy lifestyle. 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. Developing a culture of healthy lifestyle, the ability to preserve and improve health. Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline.	
Civic position and values	Overt Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks). Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Focusing on civic values-oriented position and legal awareness. Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies. Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	