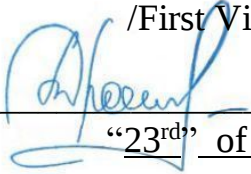


Документ подписан простой электронной подписью  
Информация о владельце:  
ФИО: Стегний Кирилл Владимирович  
Должность: И.о. ректора  
Дата подписания: 17.09.2026 15:23:07  
Уникальный программный ключ:  
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Federal State Budget Educational Institution  
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.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders**

(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

Program of the discipline **B1.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders** 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:**

|                           |                                                    |               |
|---------------------------|----------------------------------------------------|---------------|
| Director of the institute | Doctor of Medical Sciences,<br>Associate Professor | Pervov Yu.Yu. |
| (position held)           | (academic degree, academic title)                  | (full name)   |
| Assistant                 | -                                                  | Obidnyy K.Y.  |
| (position held)           | (academic degree, academic title)                  | (full name)   |
| Assistant                 | -                                                  | Bocharov V.S. |
| (position held)           | (academic degree, academic title)                  | (full name)   |
| Assistant                 | -                                                  | Gaeva V.A.    |
| (position held)           | (academic degree, academic title)                  | (full name)   |

## 1. GENERAL PROVISIONS

### 1.1. Purpose and Objectives of Mastering B1.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders

The purpose of mastering the discipline is to achieve universal, general professional, and professional competencies necessary to perform professional functions outlined in the Occupational standard "Dentist (General Dental Practitioner)".

**Objectives** of mastering the discipline:

1. Develop skills of providing medical aid in outpatient and day hospital settings.

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

Discipline **B1.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders** is included in the Variative 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 10th semester's curriculum

## 3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

| Labor function                                                                                                      | Code and Name of competency of the graduate                                                                                                                               | Competency Indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Professional Competencies</b>                                                                                    |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 |

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.V.EC.04.02 Functional diagnostics of temporomandibular joint disorders**:

Types of professional activity objectives

1. Medical
2. Research and development
3. Pedagogical

Kinds of professional activity objectives

1. *prescribing pharmacological and non-pharmacological treatment and monitoring its efficiency and safety;*

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 |
|---------------------------------------------------------|--------------------|-------------|-----------|
|                                                         |                    |             | 10        |
|                                                         |                    |             | hours     |
| 1                                                       |                    | 2           | 3         |
| <b>Classroom hours (total), including:</b>              |                    | <b>42</b>   | <b>42</b> |
| Lectures (L)                                            |                    | 6           | 6         |
| Practical classes (C)                                   |                    | 36          | 36        |
| <b>Independent work of the student (IW), including:</b> |                    | <b>30</b>   | <b>30</b> |
| <i>Preparing for classes (CP)</i>                       |                    | 18          | 18        |
| <i>Preparing for continuous assessment (CAP)</i>        |                    | 6           | 6         |
| <i>Preparation for interim assessment (IAP)</i>         |                    | 6           | 6         |
| <i>Interim assessment</i>                               |                    |             |           |
| <b>Type of interim assessment</b>                       | pass/fail test (T) | T           | T         |
|                                                         | exam (E)           |             |           |
| <b>TOTAL: TOTAL credit value</b>                        | hrs.               | <b>72</b>   | <b>72</b> |
|                                                         | credits            | <b>2</b>    | <b>2</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. 10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| 1.              | Main nosological entities of TMJ pathology in clinical gnathology. Concept, goals, and objectives of clinical gnathology. Main components of the dentofacial system and their functions. Mandibular movements in three planes. Fundamentals of occlusal diagnostics. Dysfunctional conditions of the temporomandibular joint. Etiology, Clinic, and Treatment. Neuromuscular dysfunction syndrome: habitual dislocations of the joint (jaw, meniscus). Concept, goals, and objectives of clinical gnathology. Occlusal -articulatory dysfunctional syndrome. The main links of the dentofacial system and their function | 2        |
| 2.              | Functional analysis of the dentofacial system. Methods of examining the temporomandibular joint. Clinical (clinical and laboratory) research methods. Additional research methods. Radiographic research methods. Graphic research methods. Isotope study of the TMJ. General medical aspects in orthopedic dentistry. Dental gerontology. Compensation and adaptation in dentistry. The concept of natural reconstruction technology (NAT). History of the development and improvement of articulators, indications for use                                                                                             | 2        |
| 3.              | Basic types and elements of articulators. Facebow, methods of transferring models to the articulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2        |
|                 | <b>Hours per semester total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>6</b> |

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

| No. | Practical Class Topic | Hours |
|-----|-----------------------|-------|
|-----|-----------------------|-------|

|                                 |                                                                                                                                                                                                                          |           |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1                               | 2                                                                                                                                                                                                                        | 3         |
| Semester No. 10                 |                                                                                                                                                                                                                          |           |
| 1                               | TMJ structure in relation to dental treatment planning. Modern methods for diagnosing dentofacial pathology. Articulators in dentistry. Structure. Working with articulators                                             | 7         |
| 2                               | Functional analysis of the dentofacial system. Fundamentals of occlusal diagnostics. Methods for determining the centric relation of the jaws. Practical training – practical skills demonstration                       | 7         |
| 3                               | Basic principles of complex treatment of diseases of the temporomandibular joint and masticatory muscles. Practical training – practical skills demonstration                                                            | 7         |
| 4                               | Dysfunctional conditions of the temporomandibular joint. Classification. Etiology. Clinical presentation. Treatment (occlusion -articulation neuromuscular syndrome). Practical training –practical skills demonstration | 7         |
| 5                               | Final class session                                                                                                                                                                                                      | 8         |
| <b>Hours per semester total</b> |                                                                                                                                                                                                                          | <b>36</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. 10 |                                                                                                                                     |                                                                         |             |
| 1               | The main nosological forms of TMJ pathology in clinical gnathology                                                                  | Written report on select questions, preparing for continuous assessment | 10          |
| 2               | Algorithms for diagnostics and orthopedic treatment of patients with functional periodontal pathology. K05.3 (according to ICD-10)  |                                                                         | 10          |
| 3               | Algorithms for diagnostics and orthopedic treatment of patients with temporomandibular joint disorders. K07.6 (according to ICD-10) |                                                                         | 10          |
|                 | Hours per semester total                                                                                                            |                                                                         | 30          |

## 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   | Diagnostics and treatment of diseases of the temporomandibular joint: textbook . p individual [Electronic resource] | S. Yu. Ivanov, V. V. Bekreev [and others]                        | M.: GEOTAR-Media, 2021. - 112 p. URL: <a href="http://studentlibrary.ru/">http://studentlibrary.ru/</a> | Unlimited access                                                  |
| 2   | Treatment of patients with disorders of the temporomandibular joint and masticatory muscles:                        | V. N. Trezubov, E. A. Bulycheva, V. V. Trezubov, D. S. Bulycheva | M.: GEOTAR-Media, 2021. - 96 p. URL: <a href="http://studentlibrary.ru/">http://studentlibrary.ru/</a>  | Unlimited access                                                  |

|   |                                                 |                                                                              |                                           |                  |
|---|-------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|------------------|
|   | clin. guid. [Electronic resource]               |                                                                              |                                           |                  |
| 3 | Introduction to prosthetic dentistry : Textbook | A.V. Sevbitov, M.Yu. Kuznetsova, V.V. Borisov [et al.]; ed. by A.V. Sevbitov | M. : MIA , 2020. - 56 p. - EBS " Medlib " | 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   | Diagnosis of temporomandibular joint diseases                                                                    | S. P. Rubnikovich [and others]                                   | Minsk : Belarusian Navuka , 2019. - 189 p. URL: <a href="http://studentlibrary.ru/">http://studentlibrary.ru/</a> | Unlimited access                                                  |
| 2   | Treatment of patients with disorders of the temporomandibular joint and masticatory muscles: clinical guidelines | V. N. Trezubov, E. A. Bulycheva, V. V. Trezubov, D. S. Bulycheva | M. : GEOTAR-Media, 2021. - 90, [6] p.                                                                             | 2                                                                 |

#### 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. | Portfolio           |

|                           |                                                                                                                                                                                                                                                                       |           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                           | Participation in interdepartmental conferences aimed at formation of healthy lifestyle and development of skills necessary to preserve and improve health.                                                                                                            |           |
|                           | 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.                                                                                                                                                                 |           |