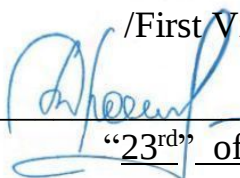


Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Стегний Кирилл Владимирович
Должность: И.о. ректора
Дата подписания: 17.09.2026 15:23:07
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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical 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.24 Ophthalmology

(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)

Department

of Ophthalmology and
Otorhinolaryngology

Program of the discipline **B1.C.24 Ophthalmology** 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 Department of Ophthalmology and Otorhinolaryngology of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the head of the department, associate professor, Doctor of Medical Sciences Fedyashev G.A.

Developed by:

Head of the Department of Ophthalmology and Otorhinolaryngology (position held)	Doctor of Medical Sciences, Associate Professor (academic degree, academic title)	Fedyashev G.A. (full name)
Senior lecturer of the Department of Ophthalmology and Otorhinolaryngology (position held)	Candidate of Medical Sciences (academic degree, academic title)	Ruchkin M.P. (full name)
Assistant of the Department of Ophthalmology and Otorhinolaryngology (position held)	 (academic degree, academic title)	Makarevich E.S. (full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering B1.C.24 Ophthalmology

The purpose of mastering the discipline is acquiring knowledge of instrumental methods of examination of the function and structure of the membranes of the eye and its adnexa, symptoms and syndromes of the most common diseases of the eye, their pathogenesis and diagnostic significance, role of the additional examination methods in establishing the diagnosis, methodology of clinical mindset; mastering methods of general clinical patient examination and analyzing examination results in order to make a diagnosis.

Objectives of mastering the discipline:

1. Learning the general principles of organizing ophthalmological care;
2. Acquiring knowledge, skills, and abilities necessary for examination of patients with ophthalmological pathology: obtaining basic knowledge about the procedure and methodology of instrumental methods of examination, symptoms and syndromes, pathomorphological changes underlying clinical symptoms and patterns of their transformation in diseases of the eye;
3. Obtaining basic knowledge about the importance of additional diagnostic methods, developing skills in determining the scope of necessary additional examination and analyzing their results in order to make a diagnosis;
4. Developing knowledge, skills, and abilities necessary for diagnosing and determining the tactics and length of treatment of ophthalmological pathology combined with pathology of other organs and systems, including pathology of the maxillofacial area;
5. Acquiring basic knowledge and skills necessary to provide first aid for emergency ophthalmological conditions and trauma of the eye.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.C.24 Ophthalmology** 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 semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.C.24 Ophthalmology** 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)	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
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3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.C.24 Ophthalmology:**

Types of professional activity objectives

1. *Medical*

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*

3.3. 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
			hours
1		2	3
Classroom hours (total), including:		46	46
Lectures (L)		14	14
Practical classes (C)		32	32
Independent work of the student (IW), including:		26	26
<i>Preparing for classes (CP)</i>		10	10
<i>Preparing for continuous assessment (CAP)</i>		8	8
<i>Preparation for interim assessment (IAP)</i>		8	8
Interim assessment			
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	72	72
	credits	2	2

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.	History of ophthalmology. Main objectives of ophthalmology. Age-related clinical anatomy of the visual system. Functions of the visual system: visual	2

	acuity, field of view, color perception, binocular vision	
2.	Optical system of the eye. Physiological optics and refraction. Refraction anomalies: preventive measures, modern treatment methods. Amblyopia	2
3.	Diseases of the accessory visual structures. Orbital diseases. Connection with the paranasal sinuses and maxillofacial area	2
4.	“Bloodshot eyes” syndrome: conjunctivitis, keratitis, uveitis. Their connection with the pathology of maxillofacial area	2
5.	Cataracts: classification, clinical manifestation, treatment. Glaucoma: etiopathogenesis, classification, clinical manifestation, treatment methods. Active detection of patients with glaucoma	2
6.	Eye injuries. Specifics of eye injuries. First aid stages. Injuries of the eye and accessory visual structures. Eye contusions: classification, first aid at the stages of triage. Burns and frostbite: first aid, treatment and rehabilitation	2
7.	Eye changes in patients with generalized diseases: diabetes mellitus, hypertension, etc. Diseases of the retina and optic nerve. Ophthalmic oncology: diagnosis and modern treatment methods	2
	Hours per semester total	14

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	Clinical anatomy, physiology, and methods of examining the visual system. Anatomical and physiological connection to the maxillofacial area. Functions of the visual system: visual acuity, field of view, color perception, binocular vision, and methods of examining them	4
2	Clinical refraction. Methods of examining clinical refraction of the eye. Refraction anomalies: hypermetropia, myopia, and astigmatism. Myopia: classification, clinical manifestation, diagnosis, modern methods of correction and stabilization, complications. Accommodation. Presbyopia. Glasses prescription. Pathology of the oculomotor system. Amblyopia	4
3	“Bloodshot eyes” syndrome: conjunctivitis, keratitis, uveitis: etiopathogenesis, diagnosis, clinical manifestations, treatment principles. The role of the pathology of maxillofacial area in the development of this pathology	6
4	Cataracts: classification, clinical manifestation, treatment. Aphakia and methods of correcting it. Glaucoma: etiopathogenesis, classification, clinical manifestation, treatment methods. Active detection of patients with glaucoma	6
5	Eye injuries. Specifics of eye injuries. First aid stages. Injuries of the eye and accessory visual structures. Eye contusions: classification, first aid at the stages of triage. Burns and frostbite: first aid, treatment and rehabilitation	6
6	Eye changes in patients with generalized diseases: diabetes mellitus, hypertension, etc. Diseases of the retina (congenital, acquired) and optic nerve. Ophthalmic oncology: diagnosis and modern treatment methods	6
	Hours per semester total	32

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	Anatomy of the visual system	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
2	Refraction	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
3	Inflammatory diseases of the eye and its adnexa	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	3
4	Cataracts	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
5	Glaucoma	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
6	Eye injuries	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
7	Diseases of the retina and optic nerve	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	3
8	Ophthalmic oncology	Preparing for practical classes, preparing for continuous assessment. Working with essential and supplementary reading materials. Completing assignments in training and monitoring	2
9	Interim assessment	Preparing for interim assessment	8
Hours per semester total			26

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	Ophthalmology for students, Textbook [Electronic resource]	Marmysh V.G., Ilyina S.N., Romanchuk V.V.	Grodno: GrSMU, 2019. – 400 p. - ISBN 978-9-8559-5592-5. - Text: electronic // EBS "BookUp": [website].- URL : https://www.books-up.ru/ru/book/ophthalmology-13930919	Unlimited access
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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	Anatomy and physiology of the eye (with clinical correlation) [Electronic resource]	E.O. Filippova, E.A. Gorbunova, O.I. Krivosheina	Tomsk: Siberian State Medical University Publishing House, 2019. - 78 p. - Text: electronic // EBS "BookUp": [website] - URL : https://www.books-up.ru/ru/book/anatomy-and-physiology-of-the-eye-with-clinical-correlation-16837607	Unlimited access
2	Ophthalmology in English, Textbook [Electronic resource]	Y.G. Soloveva, E.S. Taskina, S.V. Kharintseva	Chita: ChSMA Publishing House, 2019. - 66 p. - Text: electronic // EBS "BookUp": [website].- URL : https://www.books-up.ru/ru/book/ophthalmology-in-english-15954499	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 Participation in Student Research Society: 1. Student Research Society workplan 2. Student research activity plan 3. Participation in events aimed at promoting healthy lifestyle 4. Talks and problem-centric debates on ethics and deontology 5. Participation in academic workshops	Portfolio
	Covert – creating atmosphere and infrastructure. Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline.	
Civic position and values	Overt Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies	Portfolio
	Covert Identification in social structure and professional community during period of education and in professional activity	