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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

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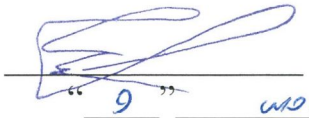
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DISCIPLINE WORK PROGRAM

Б1.О.26 Ophthalmology

(name of discipline)

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	Full-time
Period of mastering the BEP	**6 years** (nominal length of study)
Department	of Ophthalmology and Otorhinolaryngology

Vladivostok, 2025

Program of the discipline **Б1.О.26 Ophthalmology** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia, Report No. 8/24-25 dated March 31, 2025.

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, professor, Doctor of Medical Sciences Fedyashev G.A.

Developed by:

Head of the Department of Ophthalmology and Otorhinolaryngology	Doctor of Medical Sciences, Associate professor	Fedyashev G.A..
(position held)	(academic degree, academic title)	(full name)
Professor of the Department of Ophthalmology and Otorhinolaryngology	Doctor of Medical Sciences, Professor	Melnikov V.Y.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.26 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, 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. Acquire basic knowledge of procedure and methodology of instrumental diagnostics, significance of additional diagnostic methods; symptoms, syndromes, and morphological changes at the basis of clinical symptoms and patterns of their transformation in patients with eye diseases;
2. Develop skills of conducting instrumental examination, identifying the main symptoms, analysing their diagnostic significance taking into account aspects of detecting them in patients with eye diseases;
3. Acquire basic knowledge and skills necessary to determine the scope of required additional examination methods and evaluate their results.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.26 Ophthalmology** is included in the Mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), and is part of the 8th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.26 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) / Labor function	**Code and Name of competency of the graduate**	**Competency Indicators**
General Professional Competencies		
Instrumental Diagnostics	GPC-4. Is able to use medical devices included in the healthcare guidelines, as well as perform medical examination to make a diagnosis	CI.GPC-4_1- uses medical devices for diagnosis, treatment and rehabilitation in accordance with healthcare guidelines CI.GPC-4_2- performs medical examination of a patient using basic and general clinical skills, laboratory tests and diagnostic procedures CI.GPC-4_3- evaluates medical examination results in order to make a diagnosis
Professional Competencies		
A/01.7 Providing emergency or urgent medical care to the patient	PC-2 Ability and readiness to recognize urgent and life-threatening conditions in acute surgical pathology, traumatic	CI.PC-2_1- has a grasp of life-threatening conditions in acute surgical pathology, traumatic conditions, pregnancy and childbirth, that require urgent and emergency medical care;

	conditions, diseases of the female genital organs and pregnancy requiring urgent and emergency medical care	CI.PC-2_2- demonstrates skills and selects the tactics of patient management in infectious and noninfectious diseases requiring emergency and urgent medical care; CI.PC-2_3- diagnoses life-threatening and emergency conditions in diseases of the organs of visual system and ENT organs, determines the tactics of patient management and providing emergency medical care

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.26 Ophthalmology**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *Diagnostics*
2. *Treatment*

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**
			8
			hours
1		2	3
Classroom hours (total), including:		**72**	**72**
Lectures (L)		20	20
Practical classes (C)		52	52
Independent work of the student (IW), including:		**36**	**36**
Electronic educational resource (EER)		12	12
Writing a patient record		2	2
Conducting research		2	2
Writing library- research papers		2	2
Preparing for classes (CP)		12	12
Preparing for continuous assessment (CAP)		6	6
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	**108**	**108**
	credits	**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. 8	
1.	Main objectives of ophthalmology. Age-related anatomy and function of the visual system	2
2.	Refraction, accommodation. Types of refractive errors. Myopia	2
3.	Diseases of the accessory visual structures: conjunctivitis, blepharitis. Diseases of the orbit, sclera	2
4.	Diseases of the cornea: inflammation, corneal dystrophies, keratoconus	2
5.	Diseases of the uvea: uveitis. Importance of generalized diseases in the etiology of uveitis. Eye changes in patients with AIDS	2
6.	Eye changes in patients with generalized diseases	2
7.	Pathology of the lens. Diagnosis, treatment, correction	2
8.	Eye injuries. 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
9.	Glaucoma: acquired, congenital. Etiopathogenesis, clinical manifestation. Treatment stages. Active detection of patients with glaucoma	2
10.	Ophthalmic oncology: diagnosis and modern treatment methods	2
	Hours per semester total	**20**

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

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 8	
1	Main objectives of ophthalmology. Age-related anatomy of the visual system. Eye examination methods	4
2	Main function of the visual system: central and peripheral vision, color and light perception, binocular vision. Examination methods	4
3	Refraction, types of refraction. Myopia: examinations methods, classification, preventive measures, accommodation, presbyopia, astigmatism	4
4	Diseases of the accessory visual structures: eyelids, conjunctiva, lacrimal organs, orbit. Aspects of progression	4
5	Diseases of the cornea: keratitis. Viral pathology of the eye. Clinical manifestation, treatment	4
6	Diseases of the uvea: uveitis. Classification, clinical manifestation, diagnosis, treatment	4
7	Cataracts - congenital, acquired: classification, clinical picture, occupational hazards, treatment, diagnostic significance	4
8	Glaucoma: acquired, congenital. Etiopathogenesis, clinical manifestation. Treatment methods. Active detection of patients with glaucoma	4
9	Eye injuries: contusions, wounds, burns. Classification, clinical manifestation, first aid, complications. Specialized medical aid in case of injury of the eye or accessory visual structures	4
10	Eye changes in patients with generalized diseases: diabetes mellitus, hypertension, Graves' disease, rheumatic fever, eye changes in patients with AIDS. Retinal dystrophies	4
11	Lesion of the orbit and the eye. Early diagnosis, clinical manifestation, diagnosis,	4

	treatment principles	
12	Diseases of the optic nerve: optic neuritis, optic nerve atrophy, papilledema. Neuroophthalmology	4
13	Strabismus: types, detection and treatment stages. Amblyopia: prevention. Organization of ophthalmological medical care, protection of eyesight of adult and children population. Medical examinations, aspects of temporary disability	4
	Hours per semester total	**52**

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. 8		
1	General ophthalmology. Organization, principles and methods of eyesight protection at every healthcare level. Structure and level of eye pathology in children and adults	Writing a report on independent work results, preparing for continuous assessment. Working with essential and supplementary reading materials; working with Electronic educational resources	1
2	Age-related anatomy. Physiology and function of the structures of the eye and accessory visual structures	Writing a report on independent work results, preparing for practical skills demonstration	3
3	Visual function and age-related changes	Writing a report on independent work results, preparing for practical skills demonstration, preparing for continuous assessment	2
4	Optical physiology, refraction, accommodation, and their age-related changes	Writing a report on independent work results, preparing for practical skills demonstration, working with case studies, preparing for continuous assessment	2
5	Visual system examination methods. Clinical examination training, mutual examination: ophthalmic status examination, filling out a student's research form	Writing a report on independent work results, preparing for continuous assessment	2
6	Pathology of the eyelids, lacrimal organs, conjunctiva	Writing a report on independent work results, assessing the results of additional examination methods, working with case studies, writing library-research papers, preparing for continuous assessment	2
7	Pathology of the cornea, sclera	Writing a report on independent work results, assessing the results of additional examination methods, working with case studies, writing library-research papers, preparing for continuous assessment	2
8	Pathology of the uvea	Writing a report on independent work results, assessing the results of additional examination methods, working with case studies, preparing for continuous assessment	2
9	Pathology of the lens	Writing a report on independent work	2

		results, assessing the results of additional examination methods, working with case studies, preparing for continuous assessment	
10	Glaucoma	Writing a report on independent work results, working with case studies, writing library-research papers, preparing for continuous assessment	3
11	Injuries of the eye and accessory visual structures	Writing a report on independent work results, assessing the results of additional examination methods, working with case studies, writing library-research papers, preparing for continuous assessment	3
12	Pathology of the retina and the optic nerve	Writing a report on independent work results, assessing the results of additional examination methods, preparing for continuous assessment	3
13	Pathology of the oculomotor system	Writing a report on independent work results, assessing the results of additional examination methods, preparing for continuous assessment	2
14	Occupational diseases of the eye	Writing a report on independent work results, assessing the results of additional examination methods, preparing for continuous assessment	1
15	Congenital and acquired lesions of the eye. Neuroophthalmology	Writing a report on independent work results, assessing the results of additional examination methods, working with case studies, preparing for continuous assessment	2
16	Medical examination	Assessing the results of additional examination methods, preparing for continuous assessment	2
17	Principles of treatment of eye pathology. Pharmacological treatment	Writing a report on independent work results, preparing for continuous assessment	2
	Hours per semester total		**36**

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	Eye Diseases. Fundamentals of Ophthalmology textbook [Electronic resource]	E.S. Avetisov; ed. by V.G. Kopaeva	Medicine, 2012.-552, [2] p.: ill. URL: http://www.studentlibrary.ru	Unlimited access
2	Clinical Atlas of Fundus Pathology [Electronic	Katsnelson L.A., V.S. Lysenko, T.I.	Moscow: GEOTAR-Media, 2013 -120 p.: ill. URL:	Unlimited access

	resource]	Balishanskaya	http://www.studentlibrary.ru	
3	Ophthalmology: textbook [Electronic resource]	ed. by E.A. Egorova. - 2nd ed., revised and enlarged	Moscow: GEOTAR-Media, 2021 - 272 p. URL: http://studentlibrary.ru	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	Selected Lectures on Ophthalmology [Electronic resource]	E. I. Sidorenko	Moscow: GEOTAR-Media, 2013 - 192 p. URL: http://www.studentlibrary.ru	Unlimited access
2	Ophthalmology: textbook [Electronic resource]	Takhchidi Kh.P., Yartseva N.S., Gavrilova N.A., Deev L.A.	Moscow: GEOTAR-Media, 2011 - 544 p. URL: http://www.studentlibrary.ru	Unlimited access
3	Ophthalmology [Electronic resource]	ed. by Avetisov S.E., Egorov E.A., Moshetova L.K., Neroev V.V., Takhchidi Kh.P.	Moscow: GEOTAR-Media, 2018 URL: http://www.studentlibrary.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)

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)" 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 31.05.01 General Medicine for international students (in English) 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; participation in workshops, Olympiads, professional events (as volunteers, organizers, administrators)	Portfolio
	Covert – creating atmosphere and infrastructure, ethics, and deontology of medical environment	
Civic position and values	Overt Cultivating a patriotic civic position	Portfolio
	Covert Cultivating ideological position	
Social values	Overt Focusing on healthy lifestyle as a general cultural value	Portfolio
	Covert Focusing on health and life as universal human values and the center social values	