#### Summary of the working program of the academic discipline

#### «OPHTHALMOLOGY»

(name of the academic discipline)

General Educational Program of higher education (specialist's degree programs)

\_\_\_\_\_31.05.01 GENERAL MEDICINE \_\_\_\_\_

code, name of the specialty

Department: \_\_\_\_\_\_EYE DISEASES\_\_\_\_\_

**1.** The purpose of mastering the discipline (*participation in the formation of relevant competencies – specify the codes*): UC-1, GPC-4, GPC-5, GPC-6, PC -1, PC -2, PC -3, PC -4, PC -5, PC -6, PC -7, PC 22.

## **2.** Position of the academic discipline in the structure of the General Educational Program (GEP).

**2.1.** The discipline \_\_\_\_\_\_ ophthalmology\_\_\_\_\_ refers to the core part (or *the part formed by the participants of educational relations*) of Block 1 of GEP HE (Academic discipline index).

# 3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

N⁰	Competenc e code	The content of the competence (or its part)	Code and name of the competence acquisition metric		f mastering the students should	-
				know	be able to	possess
1.	UK 1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	1.1 Knows: methodsof critical analysisand evaluation ofmodern scientificachievements; basicprinciples of criticalanalysis1.2 Able to: gain newknowledge based onanalysis, synthesis,etc.; collect data oncomplex scientificproblems related tothe professional field;search forinformation andsolutions based onaction, experimentand experience1.3 Haspracticalexperience:researchingtheproblemofprofessionalactivity	basic principles and methods of information collection and analysis	to identify and systematize the main ideas in scientific texts; to critically evaluate any incoming information , regardless of the source, - to use in practice.	skills of collecting, processing, analyzing and systematizing information on the research topic; skills of choosing methods and means of solving research problems.

			using analysis,			
			synthesis and other			
			methods of			
			intellectual activity;			
			developing an action			
			strategy to solve			
			professional problems			
2.	GPC 4	Able to apply	4.2 Able to: collect	the main	- collect	-the method of
		medical products,	complaints,	clinical	anamnesis	examination
		provided by the order	anamnesis of life and	manifestatio	of the	of a patient
		of healthcare	disease of patients	ns of	disease and	with a
		delivery, as well as	(their legal	pathological	life;	pathology of
		examine patients for	representatives),	conditions	determine	the visual
		the purpose of	identify risk factors	in	the need for	organ; the
		determining the	and causes of	ophthalmol	special	method of
		diagnosis	diseases; apply	ogy	research	drawing up an
		C C	methods of	- methods	methods	individual
			examination and	of	and	examination
			physical survey of	instrumenta	evaluate	plan for
			patients; interpret the	1	their	making a
			results of examination	examination	results; - to	preliminary
			and physical	of the organ	conduct an	diagnosis of
			examination of	of vision;	instrumenta	the underlying
			patients; diagnose the	- basics of	1	and
			most common	choosing	examination	concomitant
			pathology among	modern	of the eye; -	diseases, their
			patients; identify risk	laboratory	to carry out	complications
			factors for cancer;	and	laboratory	- methods of
			formulate a	instrumenta	tests and be	modern
			preliminary diagnosis,	1	able to	laboratory and
			to make a plan for	diagnostics	interpret	instrumental
			conducting	8	them, to	diagnostics (in
			laboratory,		examine for	hospital,
			instrumental and		various	polyclinic)
			additional		diseases	- algorithm of
			investigations of		and	detailed
			patients in accordance		traumatic	clinical
			with the procedures		injuries of	diagnosis
			for providing medical		the visual	- the main
			care, clinical		organ;	medical
			recommendations		- formulate	diagnostic and
			taking into account		a diagnosis	therapeutic
			the standards of		and define	techniques for
			medical care; to refer		an action	providing first
1			patients to laboratory,		plan;	aid in case of
			instrumental and		r,	emergency
			additional			conditions of
			investigations in			the visual
			accordance with the			organ
			current procedures for			J. Burr
			providing medical			
			care, clinical			
			recommendations,			
			taking into account			
			the standards of			
			medical care; refer			
			patients for			

consultations to
medical specialists in
accordance with the
procedures of medical
care, clinical
recommendations
taking into account
the standards of
medical care; to
interpret and analyze
the results of
5
medical specialists of
patients; to interpret
and analyze the
results of basic
(clinical) and
additional (laboratory,
instrumental)
examination methods;
carry out differential
diagnosis of diseases
of patients; identify
clinical signs of
sudden acute diseases,
conditions,
exacerbations of
chronic diseases
without obvious signs
of life-threatening,
requiring medical
care in an urgent
form; use medical
devices in accordance
with current medical
procedures, clinical
recommendations
(treatment protocols)
on the provision of
medical care,
assistance taking into
account the standards
of medical care
4.3 Has practical
experience in:
collecting complaints,
anamnesis of life and
disease of patients
(their legal
representatives),
identifying risk
factors and causes of
disease development;
examination and
physical survey of
patients; diagnosis of
the most common

diseases;
identification of risk
factors for major
oncological diseases;
formulation of a
preliminary
diagnosis, drawing up
a plan for
instrumental,
laboratory, additional
investigations,
consultations of
specialist doctors;
-
referral of patients for
instrumental,
laboratory, additional
investigations,
consultations of
specialist doctors in
accordance with the
current procedures for
providing medical
care, clinical
recommendations
taking into account
the standards of
medical care;
interpretation of data
from additional
(laboratory and
instrumental)
examinations of
patients; making a
preliminary diagnosis
in accordance with
the international
statistical
classification of
diseases and
problems related to
health (ICD);
differential diagnosis
of diseases;
recognition of
conditions arising
from sudden acute
diseases, exacerbation
of chronic diseases
without obvious signs
of a threat to the
patient's life and
requiring urgent
medical care; the use
of medical devices in
accordance with
current medical
procedures, clinical

3.GPC 5Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems5.1 Knows: anatomy, pathological anatomy, physiology, pathological anatomy of pathological syndromes diseases, diseases, to prescribe the basic- the main patholysio patholysio patholysio syndromes patholphysio diseases, to for easonable morphological anatomy pathological processes in the human body to solve professional problems- the main pathological anatomy, pathological anatomy pathological anatomy pathological anatomy processes in the professional problems- the main pathological anatomy pathological anatomy pathological anatomy prescribe the basic morphological anat morphological anat morphological anatomy problems- the main prescribe prescribe the basic morphological anatomy morphological anat morphological anatomy prescribe the basic morphological anat morphological anatomy prescribe treatment of presons and prescribe- skills of recognize prescribe treatment of reasonable prescribeImage: Delimine to the basic morphological and morphological and morphological anatomy prescribe- the main prescribe treatment of reasonable prescribeImage: Delimine to the basic morphological and morphological and morphological and morphological and morphological and morphological and presons and morphological and presons- the main presons and prescribeImage: Delimine to the basic morphological and morphological and morphological and presons- the main presons<							
3.GPC 5Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems5.1 Knows: anatomy, histology, topographic anatomy, physiology of human organs and systems 5.2 Able to: evaluate the basic morphological and problems- the main recognize topographic anatomy, of of of the main ophthalmic diseases, of diseases, to prescribe treatment of persons- the main recognize top athophysio gical syndromes- skills of recognize top athophysio gical syndromes ophthalmic diseases, to prescribe treatment of persons- to recognize the main ophthalmic diseases, to prescribe treatment of persons- to recognize the main ophthalmic diseases, to prescribe treatment of persons- to recognize the main ophthalmic diseases, to prescribe treatment of persons				(treatment protocols)			
3.GPC 5Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems5.1 Knows: anatomy, physiology, topographic anatomy, physiology of and physiology of the main syndromes topothalmic diseases, the main of topothalmic diseases, the main of topothalmic diseases, the main ophthalmic diseases, to prescribe treatment of treatment of <b< td=""><td></td><td></td><td></td><td>· · · ·</td><td></td><td></td><td></td></b<>				· · · ·			
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human body account				*	U U	treatment	
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experience in: and gender							
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pathological							
processes in the							
human body when				*			
solving professional				-			
problems				0.1			
4.     GPC 6     Able to: organize     6.1 Knows: methods     -     - to carry     - the main	4. (	GPC 6	Able to: organize	1	_	- to carrv	- the main
patient care, provide of collecting the main out medical					the main	•	
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epidemics and in ogical ophthalmol					ogical		
centers of mass patient ogical	1 1			centers of mass	patient	ogical	
destruction in - the basics conditions							

5.         PC 1         Able to assess the condition of a patient requiring medical area; clinical signs of major conditions; principles of medical evacuation in emergency situations, cpidemics and in centers of mass destruction; principles of organization of patient care, first aid pathoencesis and pathoencesis and and andese and interpreting the results of patient requiring medical care in the emergency form 1.2 Able to: identify clinical signs of conditions requiring medical result signs of conditions requiring medical clinical signs of conditions requiring medical clinical signs of conditions requiring medical clinical signs of conditions requiring medical clinical signs of conditions requiring medical conditions requiring medical conditions requiring medical conditions requiring medical conditions requiring medical conditions requiring medical clinical signs of conditions requiring medical conditions requiring medical conditions requiring providing first conditions				accordance with the	of	in adults	]
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5.         PC 1         Able to assess the condition of a patient requiring medical care; clinical signs of major conditions; principles and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of pathegenesis and patient creating in the emergency situations, epidemics and in centers of mass destruction; principles of organization of pathegenesis and pathogenesis and pathogenesis and anamecisis providing instrumental results of the cognotic instrumental results of patient indications for conducting research mimethods of mergency and interpreting the results of patients reguiring medical care in the emergency form 1.2 Able to: identify clinical signs of conditions requiring medical relations for conditions requiring medical care in the emergency form         - oellect clini				1			
5.         PC 1         Able to assess the condition of a patient requiring medical treatment in the samdards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of organization of patient care, first aid treatment         - collect anannesis mergency conditions to ophthalmol ogy         - collect anannesis and in centers of mass destruction; principles of organization of patient care, first aid treatment         - collect anannesis methodology, clinical faures, complications and outcomes of tiscases of internal organs; methodology for collecting complaints and anamesis; methodology for conditions requiring the condition, prevision, patient research in strumental research privicial care complications and outcomes of diseases of internal organs; methodology for conditions for instrumental research in instrumental indiantion, patient requiring methods for technique care in the emergency form         - the main conducting a care in the emergency ophthalmol ogy         - collect anamesis methods of tresults; care in the emergency ophthalmol ogy         - skills of conditions requiring methods of tresults; care in the emergency providing in strumental indications for providing in strumental indications for methods of care in the emergency form         - deleting the results of the results of the results of a detailed chinical diagnostic and therapeute theredide chinical diagnostic and therapeute						auorescents	
5.       PC I       Able to assess the conditions, principles of medical care; clinical signs of major conditions; principles of medical care; clinical memergency situations, epidemics and in centers of mass destruction; principles of organization of patient requiring medical care, first ait treatment       - onlect and in centers of mass destruction; principles of organization of patient requiring medical care, first ait treatment       - onlect anal is centers of mass destruction; principles of organization of patient requiring medical care, first ait treatment       - onlect anal is centers of mass destruction; principles of organization of patient requiring medical reatment       - skills of anal is centers of mass destruction; principles of organization of patient requiring medical reatment       - onlect anal is centers of mass destruction; principles of organization of patient requiring medical reatment       - skills of anal is centers of mass destruction; principles of organization of patient requiring medical care from of internal organs; of internal organs; physical examination results of patients methods of and anamesis; of internal organs; physical examination patient       - onlect anal discase and interservency onditions results of and anamesis in methods of and and anamesis in methods of and interpreting the results of patients in interpreting the results of patients requiring medical care in the emergency form       - skills in interpreting the results of atternation of a detailed clinical diagnostic an theragenetic endicions requiring medical care in the emergency form				-			
5.       PC 1       Able to assess the conditions of angained requiring medical reaction of patient requiring medical treatment in the emergency situations, epidemics and in centers of mass destruction; principles of organization of patient care, first aid treatment       - the main conditions is principles of organization of patient care, first aid treatment       - collect condictions is principles of organization of patient care, first aid treatment       - collect condictions is principles of organization of patient care, first aid treatment       - collect condictions is patient care, first aid treatment       - collect condictions is pathomorphology, clinical features, conditions rand of the organ of the need for examination collecting compliants of internal organs; in methods of technique (examination, paplation, percussion, paplation, percussion, instrumental research main medical conduction, the main interpreting the requiring methods for assessing the condition, the main metical conduction, the main metical care in the emergency form       - the main physical care; conditions for conditions for conditions for conditions for conditions for conditions for conditions for conditions for conditions for conduction presearch and interpreting the requiring metical care in the emergency form       - the main metical care in the emergency form       - the main metical care in the emergency form       - collect conditions first aid to patients with eye       - skills in interpreting the condition, the metical care in the emergency form         12. Able to: identify conducting research and interpreting the requiring metical care in t							
5       PC 1       Able to assess the condition of a patient requiring medical treatment in the emergency situations, epidemices and in centers of mass destruction; principles of organization of a patient requiring medical treatment in the emergency form       - where the condition of a pathogenesis and pathogenesis and patient requiring medical treatment in the emergency form       - where the second treatment in the emergency situations, and therapeutic conditions and outcomes of diseases in methods of internal organs; methods for assessing the condition, it als of the results of patient requiring main methods for assessing the condition, it als of the main instrumental indications for conditions for conditions for equination interpreting the results of patient requiring main methods for assessing the condition for a sessing the condition for a sessing the condition for a set in the remergency form       - where main and anamesis and patient requiring methods for assessing the condition for a set in the emergency for requiring main methods for assessing the condition for a results; conducting a patient requiring main methods for assessing the condition for an administrum methods for assessing the condition for requiring main medical care in the emergency form       - where main methods of agenosite and therapeutic techniques for providing in the results of patients requiring medical care in the emergency form       - where main methods of a sessing the results of patients requiring medical care in the emergency for a for patients requiring medical care in the emergency form       - where main medical diagnostic and therapeutic techniques for providing for the main medical diagnostic and therapeutic techniques for a set alled diagnostic and therapeut				0			
5.       PC 1       Able to assess the conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of vork in centers of organization of patient creat, first aid treatment in the emergency form       - the main emergency clinical aspect, and interventing patient requiring medical treatment in the emergency form       - the main emergency clinical aspect, and interventing patient requiring medical treatment in the emergency form       - the main emergency clinical aspect, and anamnesis; physical examination, palpation, precussion, and anamnesis; physical examination, palpatorion, precussion, auscultation); a list of laboratory and interpreting the conduction, the main methods for assessing the conduction, the results of form       - collect conductions and clinical framework in their methods of the results of abases in their methods of the anamination on palpation, precussion, auscultation); a list of laboratory and interpreting the conditions, the results of results; conducting research and interpreting the conditions, the requiring medical care in the emergency form       - the main methods of assesses in methods of the results of abases in their methods of the adagnostic and agnostic and therapeutic trechniques for methods for assessing methods for assessing methods for assessing requiring medical care in the emergency form       - the main methods of a anamnesis in methods for assessing the conditions, the main methods for assessing requiring medical care in the emergency in the results of abases in the requiring medical care in the emergency in the results of anamnesis in methods       - skills in interpreting the results of abases in the remain methods         1.2 Able to: identify       - 2.2 Able to: identify       - basic       - the main methods       - skills in in							
5.       PC 1       Able to assess the conditions: principles of work in centers of mass destruction; principles of work in centers of mass destruction; principles of vork in centers of mass destruction; principles of organization of patient care, first aid treatment in the emergency form       - the main emergency clinical agnosits and patient requiring medical treatment in the emergency form       - the main emergency clinical agnosits and patient requiring medical treatment in the emergency form       - skills of the organ of the o				-			
5.       PC 1       Able to assess the conditions; principles of organization of patient care, first aid reatment in the emergency condition of a patient requiring medical treatment in the emergency form       - the main clinical manifestation is and in centers of mass destruction; principles of organization of patient care, first aid treatment in the emergency clinical aspect, clinical features, complications and outcomes of disease and outcomes of diseases of internal organs; methodology for collecting complications and anamesis; methodology for collecting complication, the main methods for assessing the condition, the main medical instrumental research and interpreting the results of patients requiring medical care in the emergency form       - the main medical diagnostic and adaptore in the main medical care in the emergency form       - the main medical care in the emergency in the results of the expension of a daptore in the results of a diagnostic of a daptore in the results of a diagnostic of a data interpreting medical care in the emergency in methods of patients requiring medical care in the emergency in the condition, the main medical diagnostic form       - skils in instrumental research in the results of the results of a data identer in the results of providing in the results of a data identer is the results of providing in the results of patients requiring medical care in the emergency is form       -							
5.       PC 1       Able to assess the condition of a patient requiring medical reatment       1.1 Knows: etiology, clinical aspect, or main diagnostic and anamesis of the organ of				<b>e</b> .	-		
5.       PC 1       Able to assess the condition of a patient requiring medical treatment       - the main methods of patient care, first aid treatment       - collect       - collect         5.       PC 1       Able to assess the condition of a patient requiring medical treatment       - the main clinical mannesis       - collect       - collect         6.       PC 1       Able to assess the condition of a patient requiring medical treatment       - the main clinical mannesis       - collect       - collect         7.       PC 1       Able to assess the condition of a patient requiring medical treatment       - the main clinical features, complications and outcomes of disease of internal diagnosis, of internal organs; methodology for collecting compliants and anamnesis; methodology for collecting compliants and anamnesis; methodos of laboratory and linistrumental research methods of auscultation); a list of laboratory and linistrumental research methods of results;       - the main medical indications for conducting research and interpreting the condition, the main medical indications for conducting research and interreting the results of patients requiring medical indications for conducting research and interpreting the condition, the results of patients requiring medical indications for conducting research and interpreting the results of patients requiring medical indications for conducting research and interpreting the results of patients requiring medical indications for conducting research and interpreting the results of patients requiring medical clinical diagnostic in the results of patients requiring medical clinical diagnostic in the results of patients requiring medical clinical diagnostic in the results of patients requiring					ogy		
5.       PC 1       Able to assess the condition of a patient creatment in the emergency form       1.1 Knows: etiology, pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; in methods of the chaluge (examination, palapation, percussion, auscultation); a list of laboratory and linkerstandin methods of auscultation, palatent, participation, precussion, auscultation; a list of laboratory and linkerstandin methods of alaboratory and linkerstanding, and interryreting the conducting research methods of alaboratory and linkerstanding, and interryreting the conducting research functions, and interryreting the conditions for conducting research functions, and interryreting the conditions for conducting research functions, and interryreting the condition, the main medical indications for conducting research functions, and interryreting the condition, the results of patient care in the emergency form       of an adjanostic care in the emergency for growiding first aid to patients or solutions for conducting research and interryreting medical care in the emergency form       of an adjanostic care in the emergency for growiding first aid to patients or solutions for conducting research and interryreting medical diagnostic care in the emergency form       of aboratory and in methods of adjanostic diagnostic care in the emergency form       of a detailed clinical diagnostic techniques for yoriding first aid to patients or yor of a detailed clinical diagnostic care in the emergency form							
5.       PC 1       Able to assess the conduction of a patient care, first aid treatment in the emergency form       1.1 Knows: etiology, patient care, first aid treatment in the emergency condition of a patient and increating medical treatment in the emergency form       - the main conducting and the examination of the organ							
5.       PC 1       Able to assess the condition of a patient requiring medical treatment       - to lease and treatment       - collect       - iskills of conducting a general examination of the energency complications and complications and complications and conducting a general examination technique       - collect       - iskills of conducting a general examination of the energency complications and complications and complications and complications and conducting a general examination technique (examination, papatient condition, a uscultation); a list of laboratory and instrumental research methods for assessing the condition for methods for assessing the condition for matical indications for conducting results; of a and complications for methods for assessing the condition, the results of patient requiring medical care in the energency form       - the main examination technique       - skills in interpreting the results of a and complexity of the condition, the results of patient requiring medical care in the emergency form       - the main examination of the argument teres argu							
5.       PC 1       Able to assess the condition of a patient care, first aid treatment       - the main patient care, first aid treatment       - collect anamnesis of the organization of patient care, first aid treatment       - collect anamnesis of the organ of the							
5.       PC 1       Able to assess the condition of a patient requiring medical treatment       - the main condition of a patient requiring medical treatment       - collect anamnesis of the general examination of the organ							
5.       PC 1       Able to assess the condition of a patient care, first aid treatment       - the main pation of patient care, first aid treatment       - collect anamnesis of the anamnesis o							
5.       PC 1       Able to assess the condition of a patient requiring medical treatment in the emergency form       1.1 Knows: etiology, pathogenesis and pathogenesis and pathogenesis and pathogenesis and pathomorphology, clinical features, complications and outcomes of diseases of internal organs; methodology for collecting complication and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition for conducting research and interpreting the results of patients requiring medical treatment in diagnostic requiring medical care in the emergency form       - the main endical interpreting the results of patients requiring medical treatment in       - collect anamnesis of the organ of the organ of the organ of the organ of the system in the need for system in the methods of technique (examination technique (examination technique (examination technique care in the emergency form       - the main methods of the organ of the							
5.       PC 1       Able to assess the condition of a patient requiring medical treatment in the emergency form       1. Knows: etiology, pathogenesis and patient requiring medical treatment in the emergency form       - the main clinical and clinical and clinical and pathomorphology, clinical aspect, clinical features, complications and outcomes of diseases of internal organs; methodology for conditions and anannesis; physical examination technique (examination, papation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition, the main methods for assessing the condition, the main methods for assessing the condition, the main methods for assessing the conducting research and interpreting the results of patients requiring medical treatment in       - basic       - skills of adiagnostic of a diagnostic of a diagnostic of a diagnostic of a diagnostic and theripreting the results of patients requiring medical treatment in       - basic       - skills in interpreting the results of patients requiring medical treatment in							
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						emergency
						conditions of
						the visual
						organ
6.	PC 2	Able to recognize	2.1 Knows: etiology,	- the main	analyze	- to identify
		conditions arising	pathogenesis and	clinical	patient	the main
		from sudden acute	pathomorphology,	manifestatio	complaints,	pathological
		diseases,	clinical picture,	ns of	anamnesis	symptoms and
		exacerbation of	differential	pathological	data, the	syndromes of
		chronic diseases	diagnosis, features	conditions	results of	ophthalmic
		without obvious	of the course,	in	the main	diseases in
		signs of a threat to	complications and	ophthalmol	diagnostic	patients -the
		the patient's life and	outcomes of diseases	ogy leading	methods in	skills of
		requiring urgent	of internal organs;	to low	ophthalmol	making a
		medical care,	methods of	vision	ogy to	preliminary
		recognize conditions	collecting	and/or	identify the	diagnosis
		that pose a threat to	complaints and	blindness,	main	based on
		the patient's life	anamnesis in	the	pathological	complaints,
		including conditions	patients (their legal	conditions	symptoms	anamnesis,
		of clinical death	representatives);	of their	and	examination
		(stopping vital	methods of physical	occurrence,	syndromes	results and the
		functions of the	examination of	methods of	of	results of
		human body (blood	patients	early	ophthalmic	instrumental
		circulation and/or	(examination,	diagnosis	diseases in	and laboratory
		respiration),	palpation,	- the main	patients,	studies
		requiring the	percussion,	ophthalmol	diagnose	- the main
		provision of	auscultation); a list	ogical	urgent and	medical
		emergency medical	of methods of	diseases	life-	diagnostic and
		care	laboratory and	that can	threatening	therapeutic
			instrumental	cause	conditions	techniques for
			investigations to	severe	of the visual	providing first
			assess the patient's condition, the main	complicatio	organ,	aid in urgent and acute
			medical indications	ns and (or) death and	provide	conditions
			for conducting	the main	emergency care for	conditions
				methods of	them.	
			research and interpreting the	treatment	uleill.	
			results; clinical signs	and		
			of sudden cessation	emergency		
			of blood circulation	care for		
			and/ or respiration	them, the		
			and, or respiration	technique		
			2.2 Can: identify	of stopping		
			clinical signs of	bleeding		
			conditions requiring	from the		
			emergency medical	organ of		
1			care; identify	vision and		
			conditions requiring	its		
			emergency medical	accessory		
			care, including	apparatus,		
			clinical signs of	** ′		
			sudden cessation of			
			blood circulation			
1			and respiration			
7.	PC 3	Able to: provide	3.1 Knows: basic	- rules and	- to carry	- basic
		emergency medical	cardiopulmonary	procedure	out washing	medical
		care to patients in	resuscitation rules;	for	of the	diagnostic and
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		case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life, provide emergency medical care to patients in conditions that threaten the patient's life, including clinical death (suspension of vital functions the human body (circulation and/or respiration)	principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration 3.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)	performing medical manipulatio ns (washing of the conjunctival cavity, removal of superficial foreign bodies, instillation of eye drops, ointments, techniques for stopping bleeding from the visual organ and its adnexal apparatus, orbit area, methods of radiolocatio n of intraocular foreign bodies (interpretati on of data))	conjunctival cavity, to remove superficial foreign bodies of the conjunctiva, instillation of eye drops, ointments, , the technique of stopping bleeding from the visual organ and its adnexal apparatus, the orbit area, to interpret the results of radiological and other instrumenta l studies	therapeutic techniques for providing first aid in urgent and acute conditions (skills of washing the conjunctival cavity, removal of surface foreign bodies, instillation of eye drops, ointments, technique of stopping bleeding from the organ of vision and its adnexal apparatus, the orbit area)
8.	PC-4	Able to use medicines and medical devices for providing medical care in emergency forms	4.1 Knows: modern methods of using medicines, medical devices for diseases and conditions in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care in the provision of medical care in the provision of	on of data)) the main clinical manifestatio ns of pathological conditions in ophthalmol ogy leading to low vision and/or blindness, the conditions of their occurrence, methods of prevention and the timing of dispensary observation -basic methods of	-analyze patient complaints, anamnesis data, increased risk factors for the developmen t of the disease, the results of the main diagnostic methods in ophthalmol ogy, - prescribe medications for diseases and damage to the organ of vision	the main methods of examination in ophthalmolog y -skills in interpreting the results of the examination and the results of instrumental and laboratory studies - the main medical diagnostic and therapeutic techniques for providing first aid in urgent and acute conditions

9.       PC.5       Able to collect complex, file and converting the ammendations converting the ammendations for preventing converting the ammendations for preventing converting converting converting complex the pulse therapy (defibrillation); rules for performing external electric pulse therapy (defibrillation); rules for percomplex points); for preventing external electric pulse therapy (defibrillation); rules for percomplex points); for preventing external electric pulse therapy (defibrillation); rules for percomplex points); rules for percomplex points); rules for percomplex points; recommendations (treatment protocols) on the medical care, clinical recomplex physical complex phy							
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9.       PC-5       Able to collect complaints, life and patient, life and containion of the patient, life and containion, papation, papa							
9.       PC-5       Able to collect complication, the diagnositic anamenesis of the caused by their use; principles pulse therapy (defibrillation) in case of sudden circulation and / or respiration the diagnosis, age and clinical forture of the diagnosis, age and clinical forture of the diagnosis, age and clinical forture of the diagnosis, age and clinical forture protocols) on the medical devices taking into account the fided of plation, papation, pretursion, papation, pretursion, papation, pretursion, papation, pretursion, papation, pretursion, preture in procedures of medical complication, preture procedures for providing medical care, complication, papation, pretures of papation, pretures of papation, pretur							
<ul> <li>P. PC-5</li> <li>Able to collect complete physical care delivery in medical care complete physical c</li></ul>					-		
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patient's life and illness, conduct a complete physical patientin the field of healthns of pathological conditionsanamesis data, the y;ophthalmolog y;complete physical examination of the patientin the field of healthns of pathological conditionsanamesis data, the y;ophthalmolog y;that determine the (examination, palpation, percussion, auscultation),other documents that determine the ophthalmol of ogyin the main diagnostic general examinationpatient (examination, palpation, percussion, auscultation),in medical healthcare- the y of theophthalmol of the ogyorganizations and auscultation),in methodolog healthcareogyvision, the study of visual	1		complaints,		clinical	patient	methods of
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palpation, percussion, auscultation),medical organizations and healthcare- the methodolog y of theophthalmol ogyof the organ of vision, the study of visual	1		(examination,	activities of	-	methods in	examination
auscultation), healthcare y of the - conduct a study of visual	1		palpation,	medical		ophthalmol	of the organ of
auscultation), healthcare y of the - conduct a study of visual			percussion,	organizations and	methodolog	ogy	
	1		-	-			study of visual
	L		formulate a	workers; method of	survey,	survey and	functions,

preliminary diagnosis	collecting	examination	examination	examination
and draw up a plan	complaints,	of the	of the	of the fundus
for laboratory and	anamnesis of life	eyeball and	eyeball and	- skills in
instrumental	and disease of the	its	its	interpreting
examinations of the	patient; a technique	accessory	accessory	the results of
patient	for a complete	apparatus,	apparatus,	laboratory,
-	physical	clinical	clinical	instrumental
	examination of the	examination	examination	diagnostic
	patient	, modern		methods;
	(examination,	methods of	-interpret	an algorithm
	palpation,	laboratory	the results	for making a
	percussion,	and	of	detailed
	auscultation);	instrumenta	laboratory	clinical
	etiology,	1 studies	and	diagnosis
	pathogenesis and	i studios	instrumenta	unghosis
	pathomorphology,		l research,	
	clinical aspect,		including	
	differential		diagnostic	
	diagnosis, clinical		studies	
	features,		using	
	complications and		modern	
	outcomes of		technical	
	diseases of internal		means and	
	organs; patterns of		digital	
	functioning of a		technologie	
	healthy human		s"),	
	body and		5),	
	mechanisms for			
	ensuring health			
	from the standpoint			
	of the theory of			
	functional systems;			
	features of the			
	regulation of the			
	functional systems			
	of the human body			
	in pathological			
	processes; methods			
	of laboratory and			
	instrumental			
	examinations for			
	assessing the state			
	of health, medical			
	indications for			
	conducting			
	investigations,			
	rules for			
	interpreting their			
	results			
	1000100			
	5.2 Able to: collect			
	complaints,			
	anamnesis of life and			
	disease of the patient			
	and analyze the			
	information received;			
	conduct a complete			
	conduct a complete			

10. PC-6	Able to send a patient to laboratory, instrumental examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care	physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures incl. modern digital technologies 6.1 Knows: general issues of organizing medical care for the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care 6.2 Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	- pathomorph ological signs of acute and urgent conditions in ophthalmol ogy -theoretical and practical issues of laboratory diagnostics; - methods of instrumenta l examination of the organ of vision; - basics of selection and indications for modern methods of laboratory and instrumenta l diagnostics	- collect anamnesis of the disease and life; -determine the need for special research methods and evaluate their results; -to make an algorithm for differential diagnosis in ocular pathology; - to diagnose the disease, determine indications for the provision of emergency, including emergency specialized care	- skills of collecting anamnesis and clinical examination of patients with pathology of the organ of vision, -possess an algorithm for making a clinical diagnosis , taking into account ICD -methods of modern laboratory and instrumental diagnostics (in hospital, polyclinic)
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		differential	pathogenesis and	pathogenesi	and	collecting
		diagnosis with other	pathomorphology,	s and	clinically	anamnesis
		diseases/conditions	clinical aspect,	pathomorph	interpret	and
		including	differential diagnosis,	ology,	pathological	clinical
		emergencies,	clinical features,	- the main,	syndromes	examination
		establish a diagnosis	complications and	leading	and	of
		taking into account	outcomes of diseases	symptoms	symptoms	patients
		the current	of internal organs;	and	of diseases	with
		international	methods of laboratory	syndromes	of the eye	pathology
		statistical	and instrumental	of damage	and	of the organ of
		classification of	examinations for	to the organ	appendage	vision,
		diseases and	assessing the state of	of vision,	apparatus	-possess
		related health	health, medical	the main	- to	an algorithm
		problems (ICD)	indications for	stages	interpret	for making a
			conducting	of the	modern	clinical
			examinations, rules	pathogenesi	methods of	diagnosis
			for interpreting their	s of	laboratory	, taking into
			results; ICD	diseases	and	account
			7.2 Able to: analyze	of the organ	instrumenta	ICD
			the results of the	of vision	l research to	
			patient's examination,	and the	carry out	
			if necessary, justify	basic	diagnostics	
			and plan the scope of	concepts	and	
			additional	and terms	differential	
			examinations;	used in	diagnostics	
			interpret the results of	ophthalmol		
			collecting information	ogy,		
			about the patient's	modern		
			disease; interpret the	classificatio		
			data obtained during the laboratory	n of diseases		
			examination of the	differential		
			patient; interpret the	diagnostic		
			data obtained during	significance		
			the instrumental	of the main		
			examination of the	symptoms		
			patient; interpret the	and		
			data obtained during	syndromes		
			consultations of the	synaromes		
			patient by medical			
			specialists; to carry			
			out differential			
			diagnostics of			
			diseases of internal			
			organs from other			
			diseases			
12. PC	C-22	Able to: maintain	22.1 Knows: the	- rules for	- to issue	the main
		medical records,	legislation of the	registration	the	methods of
		also in the electronic	Russian Federation in	of medical	necessary	examination in
		form in the MIS	the field of health	documentati	medical	ophthalmolog
			protection, regulatory	on	documentati	у;
			legal acts and other	(outpatient	on,	- skills in
			documents defining	patient's	including in	interpreting
			the activities of	card,	electronic	the results of
			medical organizations	medical	form within	laboratory,
			and medical workers;	history,	the	instrumental
			rules for working in	rules for	framework	diagnostic

documentation including in the electronic form in MIS; work with personal data of patients and information constituting a medical secret; use information and telecommunication network, the Internet, in professional activities
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## 4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is CU (AH)						
Type of educational work	Labor intensity		Labor intensity (AH) in			
	volume in volume in		semesters			
	credit units	academic	VII			
	(CU)	hours (AH)				
Classroom work, including		66	66			
Lectures (L)	0,38	14	20			
Laboratory practicum (LP)*						
Practicals (P)	1.45	52	52			
Seminars (S)						
Student's individual work (SIW)	1.17	42	42			
Mid-term assessment						
credit/exam (specify the type)		credit				
TOTAL LABOR INTENSITY	3	108	108			

### 5. Sections of the academic discipline and competencies that are formed

N⁰	Competence code	Section name of the discipline	The content of the section in teaching units
1	UK-1,GPC-4,	Clinical anatomy,	- The organ of vision in anatomical and physiological terms
	PC-4, PC-5,	physiology, methods of	- embryogenesis of the adnexal apparatus of the eye and

		anomination of the	a dhit
	PC-6	examination of the	orbit - anatomy of the bone orbit
		visual organ and its	
		adnexal apparatus	- anatomy of the adnexal apparatus of the eye
			- fibrous capsule of the eye and its purpose
			- anatomy and histology of the vascular membrane of the
			eye
			- anatomy and histology of the retina
			- vitreous anatomy
			- anatomy of the lens –
			- anatomy of the optic nerve and the visual pathway
			The visual analyzer is the main organ of cognition of the
			external world, anatomical and physiological features of the
			visual pathway
			- the concept of central vision (visual acuity, visual angle)
			- peripheral vision
			- visual adaptation
			- color perception
			- binocular vision
			- external examination of the eye and its appendages
			- examination of the anterior segment of the eyeball
			- study of the transparency of refractive and light-
			conducting media of the eye
			- methods and principles of ophthalmoscopy
			- biomicroscopy
			- methods of studying intraocular pressure
			- ultrasound methods of eye and orbit examination
			- radiation research methods in ophthalmology
			General semiotics and classification
			- anomalies of eyelid development
			- inflammatory diseases of the eyelids: blepharitis, sty,
	GPC- 4, PC-1,		chalazion (etiopathogenesis, clinic, diagnosis, treatment
	PC-2, PC-3,	Diseases of the orbit,	methods)
2	PC-4, PC-5,	eyelids, conjunctiva,	- inflammatory diseases of the conjunctiva
	PC-6, PC-7,	lacrimal organs	(etiopathogenesis, classification, clinic, diagnosis,
	PC-22		treatment)
			- inflammatory diseases of the orbit (etiopathogenesis,
			classification, clinic, diagnosis, treatment)
			Keratitis: the relevance of the problem
	GPC- 4, PC-1,		- etiopathogenesis
	PC-2, PC-3,		- classification
3	PC-4, PC-5,	Diseases of the cornea	-clinic of bacterial and herpetic keratitis
	PC-6, PC-7,		- diagnostics
	PC-22		- treatment prevention
			Inflammatory diseases of the uveal tract of the eye
			(etiopathogenesis, classification, diagnosis)
	GPC- 4, PC-1,		- anterior uveitis, diagnostic signs, principles of treatment
	PC-2, PC-3,	Pathology of the	- posterior uveitis, main clinical manifestations, treatment.
4	PC-4, PC-5,	vascular tract.	Tumors of the uveal tract of the eye.
	PC-6, PC-7,		- early diagnosis
	PC-22		- principles of treatment
			- criteria of cure, prognosis
			Cataract, definition,
5			relevance of the problem. Congenital and acquired cataracts
	GPC- 4, PC-5,		- etiopathogenesis
	PC-6, PC-7,	Pathology of the lens.	- classification
	PC-22		- clinic
			- diagnostics
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		- conservative methods of treatment			
			- surgical, including microinvasive methods of treatment		
			- aphakia, diagnostic signs, correction methods		
6			Hydrodynamics of the eye.		
		Glaucoma	Glaucoma: classification, etiopathogenesis of various forms		
	GPC- 4, PC-1, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7,		of glaucoma		
			pathogenesis of glaucoma opticoneuropathy		
			- clinic of open-angle and closed-angle forms of glaucoma		
			- methods of early diagnosis		
			conservative treatment, methods of surgical treatment of		
	PC-22		open- and closed-angle forms of glaucoma.		
			- congenital glaucoma, methods of treatment, prognosis for		
			visual functions.		
			- secondary glaucoma, treatment methods		
7	GPC- 4, PC-1, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-22	Ocular traumas	Modern classification of visual organ injuries		
			- mechanical open injury of the visual organ (injuries of the		
			orbit, the adnexal apparatus of the eye, the eyeball):		
			absolute and relative signs, clinic, diagnosis, complications.		
			intraocular foreign bodies (classification, metals)		
			- the concept of sympathetic inflammation		
			(etiopathogenesis, clinic, treatment, prevention).		
			- chemical burns of the visual organ (acid, alkaline).		
			- thermal burns of the visual organ		
			- emergency measures for various types of burn injury.		
	GPC- 4, PC-1, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-22	Pathology of the retina.	Classification of dystrophic lesions of the retina.		
			- hereditary and acquired retinal dystrophy		
			(etiopathogenesis, classification, clinic, diagnosis,		
			complications, treatment).		
			- retinal detachment (etiopathogenesis, clinic,		
8			classification)		
8			- surgical methods for the treatment of retinal detachment.		
			Vascular diseases of the retina - occlusion of the central		
			retinal artery, etiopathogenesis, clinical signs, diagnosis,		
			complications, urgent measures.		
			- thrombosis of the central retinal vein: etiopathogenesis,		
			clinical signs, diagnosis, complications, urgent measures.		