



Non-profit educational institution
Educational-scientific-production complex
"International University of Kyrgyzstan"

Quality Management System
SYLLABUS «Oncology»
"General Medicine» ISM

**International School of Medicine
Department of "Surgical diseases"**

SYLLABUS

"OPHTHALMOLOGY"


main educational program
in the specialty General Medicine (for foreign citizens)

graduate qualification: general practitioner

Full-time education

Year	4
Semester	8
Credit / Exam (semester)	8
Total Curriculum Credits	4
Total curriculum hours	120

Bishkek 2022

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1. The work program of the academic discipline

1.1. Explanatory note

Mission of ISM IUK - • The mission of the MSM MUK is to train competent specialists in the field of medicine, corresponding to international standards and traditions of medical ethics, ready for continuous professional growth using modern achievements in science and practice to solve public health problems.

- Annotation of the academic discipline

Ophthalmology - students of higher medical educational institutions of the specialty "Medicine" are: the formation of scientific knowledge and on

based on them, the ability to detect deviations in the state of the organ of vision from the age norm in adolescents from 15 to 18 years old and in persons over the age of 18 years; carrying out prevention and providing first aid to patients, taking into account further education and professional activities.

The brief content of the discipline "Ophthalmology" is the training of ophthalmologists for the work of ophthalmic surgical departments of hospitals or work in polyclinics and outpatient departments; owning the basis of the fundamental principles of "Ophthalmology" and the latest methods of diagnosis and treatment.

The purpose and objectives of the discipline

Purpose of the discipline

- Formation of universal and professional competencies among graduates for the provision of highly qualified medical care in accordance with established requirements and standards in the field of healthcare.


Tasks of the discipline

- to form an extensive and deep volume of basic, fundamental medical knowledge that forms the professional competencies of a doctor who is able to successfully solve his professional tasks;

- to form and improve the professional training of an ophthalmologist who has clinical thinking, is well versed in complex pathology, and has in-depth knowledge of related disciplines;

-Teach students to identify eye pathology, correctly assess its severity, provide first aid and provide the necessary measures to organize the prevention, treatment and rehabilitation of patients with various diseases and injuries of the organ of vision.

- deepen students' knowledge of clinical anatomy and physiology of the organ of vision; to teach functional methods of studying the visual analyzer in children and adults, to show the significance of the results of this examination of the patient in identifying the pathology of the central nervous system;

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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

- to teach general medical manipulations to provide emergency and emergency care in ophthalmology in accordance with clinical protocols;
- to form and improve a system of general and special knowledge, skills that allow the doctor to freely navigate the organization and economics of healthcare, insurance medicine, medical psychology, taking into account the requirements of regulatory legal acts, procedures and standards for the provision of medical care.

The block "Ophthalmology" is included in the variable part of the professional cycle of the ISM IUK for the specialty "General Medicine" (code 560001).

Place of discipline in the structure of GAP (prerequisites, postrequisites)

The discipline "Ophthalmology" is included in the basic part of the professional cycle of the ISM IUK for the specialty "General Medicine" (code 560001). This discipline is studied by students of the specialty General Medicine (for foreign citizens) and is included in the mandatory scope of the studied disciplines of the State Educational Institution of Higher Professional Education.

For the successful development of this discipline, students must master the following disciplines:

- Anatomy;
- Histology, embryology, cytology;
- Pathological anatomy, clinical pathological anatomy;
- Pathophysiology, Clinical Pathophysiology;
- Microbiology, Virology;
- Immunology;
- Pharmacology;
- Radiation diagnostics;
- Epidemiology;
- Propedeutics of internal diseases;
- General surgery;
- Topographic anatomy and operative surgery;
- Public health and health care, health economics;
- Infectious diseases;
- Obstetrics and gynecology;
- Dermatovenereology;
- Traumatology, Orthopedics;
- Neurology, medical genetics, neurosurgery;
- Optional therapy, occupational diseases;
- Optional surgery, urology;
- Hospital therapy, endocrinology;
- Hospital surgery, pediatric surgery;



Competencies of students, formed as a result of mastering the discipline, the planned results of mastering the discipline -

Graduate in the specialty "General Medicine" with the assignment of the qualification of a specialist "Doctor general practice" in accordance with the State Educational Institution of Higher Professional Education and PLO and the tasks of professional activity, must have the following professional competencies:

Code	Content of competence
PC-13	is able to identify the main pathological symptoms and syndromes of diseases in patients, using knowledge of the basics of biomedical and clinical disciplines, taking into account the course of pathology in organs and systems of the body as a whole, to analyze the patterns of functioning of organs and systems in various diseases and pathological processes, to use an algorithm for pasting the diagnosis (basic, concomitant, complications) taking into account the ICD-10, to perform the main diagnostic measures to identify urgent and life-threatening conditions.
PC-16	is able to provide first aid to adults and children in case of emergency and life-threatening conditions, to refer patients for hospitalization in a planned and emergency manner.
APC-5	is capable of implementing a set of measures aimed at maintaining and strengthening health, at preventing diseases using innovative technologies;

As a result of mastering the discipline, the student must:

will know:

- etiology, pathogenesis and preventive measures of the most common diseases of the organ of vision;
- modern classification of diseases of the organ of vision;
- clinical picture, features of the course and possible complications of diseases of the organ of vision
- basic principles for diagnosing diseases of the organ of vision;
- modern methods of clinical, laboratory, instrumental examination of patients with diseases of the organ of vision;
- methods of treatment and indications for their use in diseases of the organ of vision;
- bases of the organization of the out-patient-polyclinic help to the population;
- terms of surgical treatment of diseases of the organ of vision;
- principles of medical examination and rehabilitation of patients with diseases of the organ of vision;
- ethical and deontological aspects in ophthalmology

will be able to:

- to collect an anamnesis in a patient with a pathology of the organ of vision;



- conduct an examination of a patient with a pathology of the organ of vision;
- interpret the results of studies (laboratory, x-ray, instrumental);
- formulate a clinical diagnosis;
- formulate indications for the chosen method of treatment;
- apply prevention methods;
- complete a medical history

will be able to use:

- methods for determining visual acuity in children and adults;
- method of determining the field of view: control method, campimetry, perimetry;
- subjective method of determination of refraction;
- principles for prescriptions for eyeglasses;
- method of examination of the conjunctiva of the lower and upper eyelids;
- method of examination of the eye by the method of lateral illumination;
- method of examination of the eye in transmitted light;
- method of examination of the fundus: direct and reverse ophthalmoscopy;
- methodology for the study of lacrimal ducts;
- method of diagnosing penetrating injury of the eyeball;
- technique for localization of intraocular foreign bodies;
- principles of first aid in case of an acute attack of glaucoma;
- principles of first aid for penetrating wounds of the eyeball, chemical burns
- methodology for studying color perception;
- method of studying intraocular pressure;
- method of washing the conjunctival cavity, instillation of drops, laying the ointment;
- eye examination technique for young children.

will be able to analyze

- data of a physical examination of a patient of different ages (examination of the OT, palpation of the OT, measurement of IOP, determination of eye refraction, eye ophthalmoscopy, perimetry, campimetry, optical coherence tomography of the eye) when making a clinical diagnosis;


will be able to synthesize

- results of methods of laboratory and functional diagnostics, tonometry, clinical examination data, symptoms and syndromes to identify pathological processes in human organs and systems;

will be able to evaluate

- results of laboratory, instrumental diagnostic methods in patients;
- the patient's condition, the severity of the disease

1.2. Recommended educational technologies


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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

For the development of students of the academic discipline "Neurology", obtaining knowledge and forming professional competencies, the following educational technologies are used:

- lecture with elements of discussion, problem statement;
- lectures - visual presentations;
- analysis of specific situations;
- role play "doctor - patient";
- lecture-visualization,
- problem lecture,
- lesson-conference,
- training,
- debate,
- brainstorm,
- Master Class,
- small group method,
- classes using simulators,
- computer simulation,
- analysis of clinical cases,
- situational tasks,
- medical history preparation and defense,
- use of computer training programs,
- interactive atlases,
- attending medical conferences, consultations,
- participation in scientific and practical conferences, congresses, symposia,
- educational research work of a student,
- conducting subject Olympiads,
- preparation of written analytical works,
- preparation and defense of abstracts.

1.3. The scope of the discipline and types of educational work

According to the curriculum 2021	8 sem.	Total	
		in hours	in credits
Total labor intensity	120	120	3
Classroom work	36	72	
Lectures	9	18	
Practical lessons	27	54	
Independent work	12	24	
IWS(T)	12	24	
Final control type	exam		

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1.4. Discipline structure

1.4.1. Thematic plan for the study of the discipline

8 semester 4 course

№	Name sections and topics disciplines (lectures and practical exercises)	Auditory lessons				Total hours for classroom work	SRSP	Student's independent work	Formed competencies	Used educational technologies, ways and methods of teaching	Forms of the current and frontier control academic
		lectures	seminars	practical lessons	laboratory works						
	Модуль 1										
1	L: Age anatomy of the eye appendages (orbit, lacrimal organs, eyelids, conjunctiva).	2				5	2	2	PC-13 PC-16 APC-5	lecture using video materials	<i>Evaluation of mastering practical skills</i>
	P: Anatomy of the appendages of the eye (orbit, lacrimal organs, eyelids, conjunctiva)			3					PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings</i>	



										<i>role-playing educational game</i>	<i>(skills)</i>
2	Clinical anatomy of the eye The eye and its role in the life of the body. The structure of the visual analyzer, the structure of the peripheral part - the eyeball, its membranes - the physiological function of each of them. The contents of the eyeball, structure, functions, physiological characteristics. Blindness and its social significance (professional blindness, reversible and irreversible blindness).	2				5	2	2	PC-13 PC-16 APC-5	<i>visualization lecture method</i>	Testin g, control work. Evalu ation of masteri ng practic al skills (skills) · Solutio n of situatio nal proble ms
	The eye and its role in the life of the body. The structure of the visual analyzer, the structure of the peripheral part - the eyeball, its membranes - the physiological function of each of them. The contents of the eyeball, structure, functions, physiological characteristics. Blindness and its social significance (occupational blindness, reversible and irreversible blindness)			3		5	2	2	PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	




3	<p>Central vision. Peripheral vision disorders. Violations</p> <p>Central vision. Visual acuity. Principles of constructing tables for determining visual acuity. Snellen-Donders formula for determining visual acuity. Control methods for determining visual acuity in cases of dissimulation, simulation, aggravation. Peripheral vision, its significance. Perimetry and campimetry. Pathological changes in the visual field: narrowing of the visual field, hemianopsia, scotomas. The blind spot is normal in glaucoma, in diseases of the optic nerve. Anatomical and physiological bases of light perception. Dark and light adaptation. The role of dark adaptation for various professions. Hemeralopia: congenital, essential, symptomatic. Color perception. Achromatic and chromatic visual sensations. The theory of color perception by T. Jung, M.V. Lomonosov, G. Helmholtz. Disorder of color vision (monochromasia, types of dichromasia). Principles of the</p>	2				5	2	2	<p>PC-13 PC-16 APC-5</p>	<p>lecture using video materials</p>	<p>classes using simulators, simulators</p>
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	study of color perception (determination of color perception by polychromatic tables of Prof. E.B. Rabkin).										
	Central vision. Peripheral vision disorders. Violations Central vision. Visual acuity. Anatomical and physiological bases of light perception. Dark and light adaptation. The role of dark adaptation for various professions.								PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	
4	Optical system of the eye The optical system of the eye, its components, their characteristics. Clinical refraction of the eye. Types of clinical refraction. Subjective and objective methods for determining refraction. Principles of ametropia correction. Modern corrective lenses. Use of contact and intraocular lenses. Astigmatism, its types. Diagnosis and correction of astigmatism. Accommodation. accommodation mechanism. Presbyopia and its correction. Pathological states of accommodation: spasm and paralysis of accommodation.	2				5	2	2	PC-13 PC-16 APC-5	lecture using video materials	<i>classes using simulat ors, simulat ors. Testing . Test. Evalua tion of master ing practic al skills (skills). Solutio n of situati onal</i>



											<i>problems</i>
	Clinical refraction of the eye. Types of clinical refraction. Subjective and objective methods for determining refraction. Principles of ametropia correction. Modern corrective lenses. Use of contact and intraocular lenses. Astigmatism, its types. Diagnosis and correction of astigmatism. Accommodation. accommodation mechanism. Presbyopia and its correction. Pathological states of accommodation: spasm and paralysis of accommodation.			3					PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	
	Clinic of myopia. Clinic of hypermetropia. Correction, treatment. Progressive myopia and its pathogenesis. Reasons for the development of school and professional myopia. Treatment of complicated progressive myopia. Hypermetropia, clinic, treatment.	2		3					PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	<i>analysis of clinical cases. Use of computer tutorials</i>
	Modul №1.			3							
5	Binocular vision. Strabismus. Tests to check binocular vision. Strabismus angle. Classification of types of strabismus. Principles of treatment of concomitant strabismus.	2		3		5	2	2	PC-13 PC-16 APC-5	lecture using video materials	<i>analysis of clinical cases. Use of computer training</i>

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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

											progr ms. Classe s using simulat ors, simulat ors
	Binocular vision. Strabismus. Tests to check binocular vision. Strabismus angle. Classification of types of strabismus. Principles of treatment of concomitant strabismus.					5	2	2	PC-13 PC-16 APC-5	brainstorm lesson-conference debate trainings role-playing educational game	
	Methods for the study of the organ of vision; external examination of the organ of vision. Examination of the eyeball by the method of lateral illumination. Inspection in transmitted light. Ophthalmoscopy. Examination of the eye with a slit lamp. Study of intraocular pressure. Study of corneal sensitivity.	2		3					PC-13 PC-16 APC-5	brainstorm lesson-conference debate trainings role-playing educational game	busine ss and role- playin g educati onal game.
	Blepharitis.Etiology, clinic.Chalazion. Causes, clinic, differential diagnosis. Anomalies in the position and shape of the eyelid (ptosis, lagophthalmos, ectropion, entropion). Principles of treatment of diseases of the eyelids. Diseases of the lacrimal organs. Inflammatory diseases of the conjunctiva: bacterial - acute and chronic, allergic, (medication, spring catarrh,	2		3					PC-13 PC-16 APC-5	brainstorm lesson-conference debate trainings role-playing educational game	analysi s of clinea l cases. Use of comput er tutoria ls



electrophthalmia). Acute bacterial conjunctivitis of exogenous origin (acute epidemic Koch-Wicks conjunctivitis, pneumococcal, gonococcal). Acute bacterial conjunctivitis of endogenous origin (measles, diphtheria, tuberculosis-allergic, adenovirus). Degenerative diseases of the conjunctiva - pinguecula, pterygium.										
Inflammatory diseases of the conjunctiva: bacterial - acute and chronic, allergic, (medication, spring catarrh, electrophthalmia). Acute bacterial conjunctivitis of exogenous origin (acute epidemic Koch-Wicks conjunctivitis, pneumococcal, gonococcal). Acute bacterial conjunctivitis of endogenous origin (measles, diphtheria, tuberculosis-allergic, adenovirus). Degenerative diseases of the conjunctiva - pinguecula, pterygium.								PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	
General symptomatology of keratitis. Classification of keratitis - anatomical classification (prevalence, depth of location, vascularization of the infiltrate, infiltrate with or without a defect in the substance). Etiology of keratitis. Clinical forms of keratitis. Ulcerative keratitis.	2		3		5	2	2	PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	<i>analysis of clinical cases. Use of computer tutorials</i>



	Creeping ulcer of the cornea, stages of development. Herpetic keratitis (simple vesicular, dendritic, discoid). Tuberculous-allergic phlyctenular keratitis, deep tuberculous keratitis. Parenchymal syphilitic keratitis. Principles of treatment of superficial and deep keratitis. Consequences of keratitis. Classification of thorns.										ls
6	Uveitis. Classification, clinic, principles of diagnosis, principles of treatment. Congenital pathology of the vascular tract. Polyetiology of inflammatory diseases of the vascular tract. Clinic of acute iridocyclitis and choroiditis. Basic principles of local and general treatment of inflammation of the vascular tract. Features of uveitis in children. Complications of uveitis.	2		3		5	2	2	PC-13 PC-16 APC-5	visualization lecture analysis of clinical cases	small group method, forum type discussion
	Uveitis. Classification, clinic, principles of diagnosis, principles of treatment.								PC-13 PC-16 APC-5	brainstorm lesson-conference debate trainings role-playing educational game	
	Modul 2.			3			2	2			
	Anomalies in the development of the lens. Changes in Marfan's disease, Marchezani.	2		3		5	2	2	PC-13 PC-16 APC-5,	проблемная лекция дебаты	analysis of clinical cases.




	Anatomical and etiological classification of cataracts. Acquired cataracts. Senile cataract, stage of its development (beginning, immature, mature, overripe). Differential diagnosis between senile cataract and open-angle glaucoma, between cataract and lens sclerosis. Principles of treatment of senile cataracts (drug treatment in the initial stages, methods of surgical treatment - extraction and phacoemulsification of cataracts). Aphakia, clinic and correction. Secondary cataract, treatment. Complicated cataracts due to general diseases and ocular pathology (myopia, iridocyclitis, glaucoma, retinal detachment, diabetes). The main types of congenital cataracts (anterior and posterior polar cataracts, layered cataracts). Principles of cataract treatment. Complications of surgery.								PC-13 PC-16 APC-5		<i>Testing . Test. Evaluation of mastering practical skills (skills). Solution of situational problems</i>
8	Glaucoma. Definition of disease. Circulation of aqueous humor. Drainage system of the eye. Normal intraocular pressure. Regulation of intraocular pressure. Classification of glaucoma: congenital, childhood, juvenile, primary and secondary glaucoma. Congenital glaucoma	2		3		5	2	2	PC-13 PC-16 APC-5		<i>analysis of clinical cases. Testing . Test. Evaluation of master</i>



	(buphthalmos, hydrophthalmos). Classification of congenital glaucoma. Symptom complex. Treatment										<i>ing practic al skills (skills). Solutio n of situati onal proble ms</i>
	Open-angle glaucoma, pathogenesis, clinic. Differential diagnosis of open-angle glaucoma with senile cataract. Angle- closure glaucoma, pathogenesis, clinic. Differential diagnosis of angle-closure glaucoma with open-angle glaucoma. Acute attack of glaucoma, pathogenesis, clinic. Treatment methods for glaucoma. Principles of medical treatment of glaucoma. Surgical treatment of primary glaucoma, principles of surgical treatment, indications for antiglaucoma operations. Principles of treatment of an acute attack of glaucoma. Prevention of glaucoma - preventive examinations, clinical examination of patients with glaucoma. secondary glaucoma.	2		3		5	2	2	PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	<i>analysi s of clinica l cases. Testing . Test. Evalua tion of master ing practic al skills (skills). Solutio n of situati onal proble ms</i>
9	Classification of injuries of the eye and its	2		3		5	2	2	PC-13	lecture using video	<i>analysi</i>




<p>appendages. Blunt trauma to the eye. Non-penetrating wounds of the eye (cornea and conjunctiva) and first aid for them. Penetrating eye injuries, diagnostics, clinic. First aid and treatment for penetrating wounds of the eye. Complications of penetrating eye injuries: traumatic aseptic iridocyclitis, purulent iridocyclitis, endophthalmitis, panophthalmitis, phacogenic iridocyclitis, sympathetic ophthalmia. Pathogenesis, clinic of sympathetic ophthalmia (iritocyclitis, neuroretinitis) and treatment. Diagnosis of foreign bodies in the eye and their localization. Complications of penetrating wounds of the eye with the presence of intraocular foreign bodies: chalcosis, siderosis (clinic, treatment). First aid and treatment for penetrating wounds with the introduction of intraocular foreign bodies. Consequences of penetrating wounds of the eye. Injury prevention. Burns of the eye and its appendages, classification. Chemical and thermal burns, first aid and treatment. Burn prevention. Eye damage by ultraviolet rays of the spectrum (ophthalmia during electric welding, snow</p>								PC-16 APC-5	materials	<p>s of clini- cal cases. Testing . Test. Evalua- tion of master- ing practic- al skills (skills). Solutio- n of situati- onal proble- ms</p>
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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM


	ophthalmia), clinic, treatment, prevention. Analysis of R-images of patients with foreign bodies, their diagnosis.										
	Classification of injuries of the eye and its appendages. Blunt trauma to the eye. Non-penetrating wounds of the eye (cornea and conjunctiva) and first aid for them. Penetrating eye injuries, diagnostics, clinic. First aid and treatment for penetrating wounds of the eye.			3					PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	
	Diseases of the retina and optic nerve. Symptoms. Principle of treatment	2		3		5	2	2	PC-13 PC-16 APC-5	<i>brainstorm lesson-conference debate trainings role-playing educational game</i>	<i>small group method , forum type discussion. Classes using simulators, simulators</i>
2	Modul №3.			2			2	2			
	Total hours by discipline:	18		54		72	36	36			

Abbreviation for designations of educational technologies, methods and methods of teaching: traditional lecture (L), lecture-visualization (LP), problem lecture (LP), lecture-press conference (LPK), lesson-conference (LC), training (T), debate (D),

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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

brainstorming (MSH) , master class (MC), "round table" (CC), activation of creative activity (ATD), regulated discussion (RD), forum type discussion (F), business and role-playing educational game (CI, RI), small group method (MG), classes using simulators, simulators (TP), computer simulation (CS), analysis of clinical cases (CS), preparation and protection of medical history (IB), use of computer training programs (COP), interactive atlases (IA), attending medical conferences, consultations (VC), participation in scientific and practical conferences (NPK), congresses, symposia (Sim), educational and research work of a student (UIRS), conducting subject Olympiads (O), preparation of written analytical works (AR), preparation and defense of abstracts (P), design technology (PT), excursions (E), distance educational technologies (DOT).

Reducing the forms of current and midterm monitoring of academic performance: *T - testing, Pr - assessment of the development of practical skills (abilities), 3C - solving situational problems, KP - control work, K3 - control task, IB - writing and protecting a case history, CL - writing and protecting a curatorial sheet, R - writing and defense of the abstract, C - interview on control questions, D - preparation of a report, etc.*


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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

1.4.2. Organization of independent work of student


№	Тема самостоятельной работы студента:	Задание на CPC	Рекомендуемая литература
1.	visual functions. Their characteristic. Determination of visual functions and detection of their disorders.	abstract, presentation, preparation of the report	<p>1. Eye diseases. Fundamentals of ophthalmology: a textbook for medical students Avetisov E. S., Avetisov S. E., Beloglazov V. G.; ed. prof. V. G. Kopaeva. - M. : Medicine, 2012.</p> <p>2. Ophthalmology textbook for students / M. R. Guseva and others; ed. E. I. Sidorenko. - 3rd ed., revised. and additional - Moscow: GEOTARMedia, 2013. EBS "Student Consultant.</p> <p>3. Ophthalmology: a textbook for medical students / ed. E. A. Egorova. - M.: GEOTAR-Media, 2013. - Birich, T. A. Ophthalmology: a textbook for students Pediatrics" of institutions providing higher education / T. A. Birich, L. N. Marchenko, A. Yu. Chekina. - Minsk: Higher School, 2007.</p>
2.	The principle of treatment of eye diseases.	abstract, presentation, preparation of the report	<p>1. Eye diseases. Fundamentals of ophthalmology: a textbook for medical students Avetisov E. S., Avetisov S.</p>



			<p>E., Beloglazov V. G.; ed. prof. V. G. Kopaeva. - M. : Medicine, 2012.</p> <p>2. Ophthalmology textbook for students / M. R. Guseva and others; ed. E. I. Sidorenko. - 3rd ed., revised. and additional - Moscow: GEOTARMedia, 2013. EBS "Student Consultant.</p> <p>Ophthalmology: a textbook for students Pediatrics" of institutions providing higher education / T. A. Birich, L. N. Marchenko, A. Yu. Chekina. - Minsk: Higher School, 2007.</p>
3.	Congenital anomalies in the development of the organ of vision. Retinoblastoma.	abstract, presentation, preparation of the report	<p>Kanski. Clinical ophthalmology. 2015</p> <p>Atlas of Ophthalmology. Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2013</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p> <p>Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2014</p>
4.	Parasitic disease of the eyelids, conjunctiva. Trachoma.	abstract, presentation, preparation of the report	<p>Kanski. Clinical ophthalmology. 2007</p> <p>Atlas of Ophthalmology.</p>

	Non-profit educational institution Educational-scientific-production complex "International University of Kyrgyzstan"
	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM


			<p>Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2013</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p> <p>Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017</p>
5	Uveitis and associated systemic diseases. Uveopathy.	abstract, presentation, preparation of the report.	<p>Kanski. Clinical ophthalmology. 2012</p> <p>Atlas of Ophthalmology. Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2003</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p> <p>Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017</p>
6	computer vision syndrome	abstract, presentation, preparation of the report	<p>Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2013</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology.</p>

	Non-profit educational institution Educational-scientific-production complex "International University of Kyrgyzstan"
	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

			Fred M Wilson Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017
7	computer vision syndrome	abstract, presentation, preparation of the report.	Kanski Comprehensive ophthalmology /Khurana/.- Kolkata,2013 Basic Ophthalmology. 9 edition Practical ophthalmology. Fred M Wilson Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017
8	Allergic eye diseases.	abstract, presentation, preparation of the report.	Kanski Comprehensive ophthalmology /Khurana/.- Kolkata,2013 Basic Ophthalmology. 9 edition Practical ophthalmology. Fred M Wilson Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017
9	Changes in the fundus of the eye in hypertension. Diabetes and the eye.	abstract, presentation, preparation of the report.	Kanski. Clinical ophthalmology. 2007 Atlas of Ophthalmology. Kanski Comprehensive ophthalmology /Khurana/.-



			<p>Kolkata,2003</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p> <p>Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2013</p>
10	AIDS and the eye. Tuberculosis of the eyes	abstract, presentation, preparation of the report.	<p>Kanski. Clinical ophthalmology. 2012</p> <p>Atlas of Ophthalmology. Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2012</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p> <p>Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2013</p>
11	Age-related macular degeneration. Contemporary performances..	abstract, presentation, preparation of the report	<p>Kanski</p> <p>Comprehensive ophthalmology /Khurana/.- Kolkata,2013</p> <p>Basic Ophthalmology. 9 edition</p> <p>Practical ophthalmology. Fred M Wilson</p>

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			Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017
12	.Retinal detachment	abstract, presentation, preparation of the report.	Kanski Comprehensive ophthalmology /Khurana/.- Kolkata,2013 Basic Ophthalmology. 9 edition Practical ophthalmology. Fred M Wilson Parson's Diseases of the eye. Twentieth edition. Ramanjit Sihota. 2017

1.4.3. Evaluative means of monitoring progress

- Current and milestone (modular) control -
- The current control of students' knowledge can be:
 - - oral questioning;
 - - solution of situational problems;
 - - assessment of mastering practical skills on dummies;
 - - control task; test;
 - - checking the completion of written homework assignments;
 - - checking abstracts, reports, presentations.

Topics of abstracts (reports and presentations)

- Modern ideas about the accommodation of the eye.
- Paralysis of accommodation.
- Spasm of accommodation. Classification.
- Causes, signs, features of the course of accommodation spasm.
- Age-related cataract, pathogenesis, clinic, treatment.
- Eye manifestations of diabetes
- Ocular manifestations of ocular tuberculosis.

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	Quality Management System SYLLABUS «Oncology» "General Medicine» ISM

- Ocular manifestations of congenital and acquired syphilis
- Features of the manifestation of chlamydial conjunctivitis.
- Malignant myopia, causes, clinic, treatment. Causes of disability and blindness.

COURSE POLICY AND EVALUATION CRITERIA:

Type of control (current, milestone, final)	Control form	Assessment of learning outcomes
Attendance	For one missed lesson minus 2 points	20 points
Current control	Oral survey, written work	20 points
IWS+IWW	Performing assignments, work with literature	20 points
Milestone control (module submission)	Testing, control tasks	40 points
Final control (differential test)	Conversation, examination (test.edu.kg)	100 points

Scale of correspondence between grades and scores on the final control (exam)	
Score	Grade
90-100	«excellent»
76-89	«good»
60-75	«satisfactory»
0-59	«unsatisfactory»