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Khanty-Mansiysk Autonomous Okrug-Ugra
 "Surgut State University"

Approved by
 Deputy Rector for Academic Affairs

_____ E.V. Konovalova

“ 11” June 2025, Record No. 5

Ophthalmology Syllabus

Department	Surgical Diseases
Curriculum	s310501-ЛечДелоИН-25-5.pli.xml Specialty 31.05.01 General Medicine
Qualification	General Practitioner
Form of education	Full-time
Total (in credits)	3

Total academic hours	108	Control:
including:		Exam, 9 th term
Classes	64	
Self-study	17	
Control hours	27	

Course outline in terms

Academic year (Term)	9 (5.1)		Total	
Weeks	17 2/6			
Types of classes	Cur	Syl	Cur	Syl
Lectures	16	16	16	16
Practical	48	48	48	48
Total classes	64	64	64	64
Self-study	17	17	17	17
Control hours	27	27	27	27
Total	108	108	108	108

The Syllabus is compiled by:

PhD in Medical Sciences, Associate Professor, Santoro E.U.

The Syllabus

Ophthalmology

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" 06 2025 Record No. 5

The Syllabus was approved by the department

Surgical Diseases

Head of Department, Doctor of Medicine, Professor Darvin V.V.

1. COURSE OBJECTIVES	
1.1	The purpose of studying ophthalmology is to form scientific knowledge and, based on it, the skills to identify deviations from age-related norms in the visual system among people of different ages, as well as to perform preventive measures and provide first aid to patients with ophthalmic pathologies.

2. COURSE OVERVIEW	
Course code (in curriculum)	B1.O.04
2.1	Assumed background:
2.1.1	Normal Physiology
2.1.2	Anatomy
2.1.3	Microbiology, Virology
2.2	Post-requisite courses and practice:
2.2.1	Obstetrics And Gynecology
2.2.2	Pediatrics
2.2.3	Hospital Therapy, Endocrinology
2.2.4	Stomatology
2.2.5	Dermatovenereology
2.2.6	Infectious Disease
2.2.7	Outpatient Therapy
2.2.8	Clinical Pharmacology
2.2.9	Hospital Surgery, Pediatric Surgery
2.2.10	Otorhinolaryngology

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
PC-1.1: Demonstrates knowledge of etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental) determines the main pathological conditions, symptoms, syndromes of diseases in the patient and diagnoses nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions	
PC-1.2: Performs differential diagnosis, assesses the prognosis (short-term, medium-term, and long-term) of disease progression, identifies acute complications and complications of chronic diseases.	
PC-3.1: Examines the patient (collects and analyzes the patient's complaints, his anamnesis data, physical examination, the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological and clinical data, evaluates the prognosis (short-, medium-, long-term) of its course and outcomes	
PC-3.2: Formulates a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions and current clinical classifications	
PC-3.3: Performs early and differential diagnostics of diseases	
PC-3.4: Carries out routing and management of patients based on current legislation (standards, procedures for the provision of medical care, Clinical guidelines)	
PC-5.1: Demonstrates knowledge of the mechanisms of action, methods of using pharmacotherapy, therapeutic nutrition, medical devices and methods of non-drug treatment, palliative and	
PC-5.2: Provides medical care to various categories of patients with diseases in outpatient settings, hospitals, and high-tech medical centers (HTMCs), using pharmaceuticals, medical devices, and therapeutic nutrition, taking into account the clinical presentation and in accordance with current procedures, healthcare standards, and clinical guidelines (treatment protocols)	
PC-5.4: Demonstrates knowledge of the side effects of drugs, methods of their administration, knowledge of the duration of their use and evaluates the effectiveness and safety of the drug therapy, therapeutic nutrition and the use of non-drug treatment, therapeutic nutrition of palliative	
PC-8.2: Maintains medical records, including in electronic form	

By the end of the course students must:

3.1	know:
3.1.1	- etiology, pathogenesis and prevention of the most common eye diseases;
3.1.2	- modern classification of ophthalmic diseases;

3.1.3	- clinical picture, features of the course and possible complications of the most common ophthalmic diseases occurring in a typical form in different age groups;
3.1.4	- methods of diagnosis of diseases of the visual organ, including modern methods of clinical, laboratory, instrumental examination of patients;
3.1.5	- methods of diagnosis of diseases of the visual organ, including modern methods of clinical, laboratory, instrumental
3.1.6	- modern method of treatment of ophthalmic pathology.
3.2 be able to:	
3.2.1	- make a preliminary diagnosis of common eye diseases and injuries;
3.2.2	- provide first aid and make a decision on the subsequent medical tactics in case of: eye inflammations, eye burns, blunt and penetrating eye injuries;
3.2.3	- identify the relationship of the General pathological process in the body of the patient with diseases of the organ of vision and to give medical advice;
3.2.4	- establish on the basis of knowledge of epidemiology, the role of environmental factors, genetic and social factors, modern achievements of ophthalmology necessary measures to prevent the occurrence of epidemic outbreaks of infectious diseases, damage to the visual organ and the development of severe disability-blindness;
3.2.5	- prescribe corrective lenses (eyeglasses) for myopia, hyperopia, presbyopia, and aphakia.;
3.2.6	- instill eye drops, apply ointment into the conjunctival sac, irrigate the conjunctival cavity
3.2.7	- remove a superficial foreign body from conjunctiva and cornea;
3.2.8	- apply monocular and binocular aseptic dressings;
3.2.9	- complete medical documentation (medical history, outpatient card).

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)							
Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive	Notes
	Topics № 1 Modern diagnostic and therapeutic technologies in ophthalmology.						
1.1	Visual functions and age dynamics of their development. / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-	L1.1 L2.1 L3.1	0	
1.2	Physiological optics, refraction. Accommodation and their age characteristics. / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
1.3	Clinical anatomy of the organ of vision. / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-	L1.1 L2.1 L3.1	0	
1.4	Clinical anatomy of the organ of vision. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-	L1.1 L2.1 L3.1	0	
1.5	Visual functions and age dynamics of their development. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-	L1.1 L2.1 L3.1	0	
1.6	Physiological optics, refraction. Accommodation and their age characteristics. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
1.7	Binocular vision and its pathology. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-	L1.1 L2.1 L3.1	0	

1.8	Clinical anatomy of the visual organ / for self-study/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
1.9	Physiological optics, refraction. Accommodation and their age characteristics / for self-study/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
	Topics 2 diagnostic and Treatment program of the diseases of the anterior segment of the eye.						
2.1	Pathology of the choroid. / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
2.2	Pathology of the lens. / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
2.3	Pathology of eyelids and lacrimal organs. Pathology of the conjunctiva / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
2.4	Pathology of the cornea sclera. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
2.5	Pathology of the choroid. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
2.6	Pathology of the lens. / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
2.7	Pathology of the lens. / for self-study/	9	5	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
	Topics № 3 Treatment and diagnostic program of diseases of the posterior segment of the eye.						
3.1	Glaucomas. / lecture	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
3.2	Pathology of retina and optic nerve / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	

3.3	Damage to the organ of vision / lecture/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
3.4	Glaucoma / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4	L1.1 L2.1 L3.1	0	
3.5	Pathology of the retina and optic nerve. / practical classes	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
3.6	Damage to the organ of vision / practical classes/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
3/7	Final lesson / practical classes	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	Control work
3.7	Glaucoma /for self-study/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	
3.8	Exam	9	27	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L3.1	0	Exam task

5. ASSESSMENT TOOLS

5.1. Points for oral quiz, tests, and case – study

Supplement

5.2. Topics for essay

Supplement

6. COURSE (MODULE) RESOURCES

6.1. Recommended Literature

6.1.1. Core

	Authors	Title	Title	Quantity
L1.1	L. L. Kolesnikov, D. B. Nikitiuk, S. V. Klochkova, I. G. Stelnikova	Textbook of Human Anatomy. In 3 vol. Vol. 3. Nervous system. Esthesiology - - 216 p.	M. :GEOTAR-Media, 2020, Electronic resource	1

6.1.2. Supplementary

	Authors	Title	Title	Quantity
L2.1	Lapkin M.M., Trutneva E.A.	Selected Lectures on Normal Physiology	M. :GEOTAR-Media,, 2019, Electronic resource	1

6.1.3. Tutorials

L3.1	Marmysh V. G., Ilyina S. N., Romanchuk V. V..	Ophthalmology: manual	Grodno State Medical University: 2021, Electronic resource	1
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6.2. Internet resources	
I1	Ophthalmology http://www.swetswise.com
I2	Ophthalmology http://dc.rsl.ru
I3	Ophthalmology http://www.scsml.rssi.ru
I4	Ophthalmology www.studmedlib.ru
6.3.1 Software	
6.3.1.1	Operational system Microsoft, applied programs pack Microsoft Office
6.3.2 Information Referral systems	
6.3.2.1	«Garant», «Consultant plus», « Consultant - region»

7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)	
Classrooms for lecture classes, practical classes, group and individual consultations, current control and interim examination are equipped with: typical educational furniture, technical teaching aids, employees for the presentation of educational information. Practical classes, individual consultations, current control and interim control are held in the classroom of the Department of Internal Diseases of the MI based on SOKB platform.	