

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

OPHTHALMOLOGY

2023



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Discipline



OPHTHALMOLOGY

Teacher(s)



Olga Denysiuk

Profile of the teacher(s)



<https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin>

Consultations

Face-to-face consultations



Second Thursday of the month from 15:00 to 16:00

Online consultations



Fourth Friday of the month from 15:00 to 16:00

Contact phone number



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Discipline page



<https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin>

Form of final control

offset

differentiated offset

exam

☐☒☐

1 Brief summary of the discipline

"Ophthalmology is a clinical discipline that studies the anatomy, physiology and pathology of the organ of vision and the auxiliary apparatus of the eye.

2 Prerequisite for the course

The prerequisite for studying the discipline of Ophthalmology is that diseases of the eye are among the most common human diseases and account for about 20% of all visits to medical institutions. Eye diseases lead to early disability or to restrictions in the choice of profession, so it is safe to say that an ophthalmologist can be among the first doctors in healthcare.

3 Purpose and objectives of the discipline

The purpose of teaching the discipline "Ophthalmology" is the final goals set on the basis of the EPP, training of a doctor in the specialty in accordance with the block of its content module (natural science training).

The main tasks of studying the discipline "Ophthalmology" are to use ethical and deontological principles of vision protection of people of different ages and sexes, to analyse the features of the organ of vision, to interpret the mechanisms of development of pathological processes of the organ of vision; to determine the etiological and pathogenetic factors of the development of major diseases of the organ of vision; to make a preliminary diagnosis of the most common eye diseases and injuries; to determine the tactics of managing patients with major eye diseases; to diagnose emergency conditions in ophthalmology and provide emergency

4 Learning outcomes

PLO-1	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. To be responsible for professional development, the ability to further professional training with a high level of autonomy.
PLO-3	Specialised conceptual knowledge, including scientific achievements in the field of health care and the basis for research, critical thinking of medical problems and related interdisciplinary issues.
PLO-4	Identify and identify the leading clinical symptoms and syndromes (according to list 1); using standard methods, using preliminary data from the patient's history, examination of the patient, knowledge of the person, his/her organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).
PLO-5	Collect complaints, anamnesis of life and disease, assess the patient's psychomotor and physical development, the state of organs and body systems, based on the results of laboratory and instrumental studies, evaluate information on the diagnosis (according to list 4), taking into account the patient's age.
PLO-6	Establish the final clinical diagnosis by making an informed decision and analysing the obtained subjective and objective data of clinical, additional examination, differential diagnosis, following the relevant ethical and legal standards, under the supervision of a supervising physician in the conditions of healthcare facility (according to list 2).

PLO-7	To prescribe and analyse additional (mandatory and optional) methods of examination (laboratory, functional and/or instrumental) (according to the list 4), patients with diseases of organs and systems of the body for differential diagnosis of diseases (according to list 2).
PLO-8	Determine the main clinical syndrome or what causes the severity of the victim's/injured person's condition (according to list 3) by making an informed decision and assessing the person's condition in any circumstances (in a healthcare facility, outside it), including in an emergency situation and hostilities, in the field, in conditions of lack of information and limited time.
PLO-9	Determine the nature and principles of treatment of patients (conservative, surgical) with diseases (according to list 2), taking into account the patient's age, in a health care facility, outside it and at the stages of medical evacuation, including in the field, based on a preliminary clinical diagnosis, following the relevant ethical and legal standards, by making an informed decision according to existing algorithms and standard schemes, if necessary, expand the standard scheme, be able to justify personalised recommendations under the supervision of a supervising physician
PLO-10	Determine the necessary work, rest and nutrition regime based on the final clinical diagnosis, in compliance with relevant ethical and legal standards, by making an informed decision according to existing algorithms and standard schemes.
PLO-14	Determine the tactics and provide emergency medical care for urgent conditions (list 3) in a time-limited environment in accordance with existing clinical protocols and standards of care.
PLO-17	Perform medical manipulations (according to List 5) in a healthcare facility, at home or at work based on a preliminary clinical diagnosis and/or patient's condition indicators by making an informed decision, following the relevant ethical and legal standards.
PLO-18	Determine the state of functioning and limitations of a person's vital activity and the duration of disability with the preparation of relevant documents, in a healthcare facility, based on data on the disease and its course, peculiarities of the person's professional activity, etc. Maintain medical records for the patient and the population on the basis of regulatory documents.
PLO-21	Find the necessary information in professional literature and databases of other sources, analyse, evaluate and apply this information.
PLO-22	Apply modern digital technologies and specialised software, statistical methods of data analysis to solve complex healthcare problems.
PLO-24	Organise the necessary level of individual safety (own and of persons under their care) in the event of typical dangerous situations in the individual field of activity in the individual field of activity.
PLO-25	Communicate your own knowledge, conclusions and arguments on healthcare and related issues clearly and unambiguously health care and related issues to specialists and non-specialists
PLO-27	Communicate fluently in the state language and in English, both orally and in writing, to to discuss professional activities, research and projects.

The discipline takes 90 hours of 3 ECTS credits to study.



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Structure of the discipline

Class topic	Lesson	Practice	Individual
Content module 1			
1. Anatomical and topographical features of the organ of vision. Functions of the organ of vision.		3	3
2. Refraction and accommodation. Strabismus		3	3
3. Diseases of the eyelids, lacrimal organs and orbit, conjunctiva	2	3	3
Content module 2			
4. Diseases of the cornea, sclera, vascular membrane		3	2
5. Diseases of the lens. Dystrophic diseases of the vitreous. Diagnosis and treatment.		2	3
6. Glaucoma. Diagnosis and treatment.	2	3	2
7. Diseases of the retina, optic nerve.		3	3
8. Changes in the organ of vision in general diseases.		3	3
Content module 3			
9. Damage to the organ of vision. Emergency care. Supervision of patients.	2	3	4
10. Emergency conditions in ophthalmology (acute obstruction of the central retinal vein and its branches, embolism of the central retinal artery, retinal detachment, orbital phlegmon.	2	3	8
11. Changes in the organ of vision in inflammatory diseases.	2	3	4
12. Pathology of the oculomotor apparatus.		3	4
Differential offset		3	
Разом	3,0 credits/ 90 hours	10	38

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Signs of discipline

Термін викладання	Семестр	Міжнародна дисциплінарна інтеграція	Курс (рік навчання)	Цикли: загальної підготовки/професійної підготовки/вільного вибору
0,5 роки	VII	Так	4 курс	Цикл професійної підготовки

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Evaluation system and requirements

Current control is carried out on the basis of control of theoretical knowledge, practical skills and abilities. The forms of current control are: oral questioning (frontal, individual, combined), interview; practical testing of the formed professional skills (conducted on the basis of the results of solving clinical cases, working with medical documentation, performing practical skills, working at the patient's bedside); test control ("open" and "closed" test tasks).

Current control is mandatory. When assessing the mastery of each topic in all disciplines of the curriculum, the student is given grades on a 4-point (traditional) scale for current learning activities, taking into account the approved assessment criteria for the discipline. All types of work provided by the curriculum are taken into account. The student must receive a grade for each topic.

The teacher conducts a survey of each student in the group at each lesson and gives a grade in the student's attendance and progress record on a traditional scale ("5", "4", "3", "2").

When assessing a student's current learning activities, 20% of the grade is based on the student's independent work, which takes into account the knowledge of the topic of the independent lesson and the work in the notebook.



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Evaluation system and requirements

The final (summative) control is carried out: in the form of a written control work, which includes test tasks, theoretical questions; control of practical skills (solving clinical cases, defending a medical history, assessing the correctness of practical skills - a practice-oriented exam.

In accordance with the specifics of professional training, preference is given to test and practice-oriented control.

Differential test is a form of final control of student's mastering of theoretical and practical material in the discipline.

QR Code: <https://ieu.edu.ua/docs/pol-ornzvoems.pdf>

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Conditions for admission to the final control

Students who have completed all types of work and assignments provided for in the curriculum for the semester in accordance with the discipline, attended all classes provided for in the curriculum, written and submitted a medical history and have an average score for current academic activities of at least "3" (72 points on a 120-point scale) are admitted to the semester final control.

QR Code: <https://ieu.edu.ua/docs/pol-ornzvoems.pdf>

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Політика дисципліни

A prerequisite for a successful educational process is personal compliance by each student of a higher education institution with the rules of conduct accepted both at the university and in society. The future doctor must have a high level of behavioural culture, behave with dignity, tact, and self-control.

The student must be on time for classes and wear academic medical uniform (white coat or surgical suit). The student must adhere to the schedule of the educational process, come to class prepared on the topic of the class. During the class, the student must not leave the classroom without the permission of the teacher; use a mobile phone and other means of communication and information without the permission of the teacher, engage in outside activities, distract other students. When writing different types of papers, students must adhere to the rules of academic integrity.

The teacher must adhere to the curriculum, objectively assess students' knowledge and skills. During the educational process, the teacher must be aware of anti-corruption measures and not engage in corrupt activities.

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Policy on absences and late assignments

A student who, for valid reasons, confirmed by documentary evidence, was not subject to current control has the right to pass the current control within two weeks after returning to study.

A student who was absent from classes without valid reasons, did not participate in current control activities, did not eliminate academic debt, is not allowed to take the final semester control of knowledge in this discipline, and on the day of the exam, the academic

and on the day of the exam, the academic staff member gives a grade of "not admitted". Retaking the differentiated test in the discipline is assigned subject to the completion of all types of educational, independent (individual) work

(individual) work provided for by the working curriculum of the discipline and is carried out in accordance with the schedule of liquidation of academic debt approved by the Directorate.

QR Code: <https://ieu.edu.ua/images/AndreyContent/docs/16.pdf>

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Academic integrity policy

Participants in the educational process are guided by the principles of academic integrity

QR Code: <https://ieu.edu.ua/images/AndreyContent/docs/16.pdf>



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Recommended sources of information

Main (basic)

1. Ophthalmology: textbook. Edited by D.G. Zhaboyedov, V.M. Serdyuk, R.L. Skrypnik, K.: VSV "Medicine", 2022.-128 p.
2. Ophthalmology: textbook / O.P. Vitovska, P.A. Bezditko, I.M. Bezkorovayna et al: AUS Medicine Publishing, 2020. - 648 p.
3. Therapeutic ophthalmology. Textbook of ophthalmology. Edited by G.D. Zhaboyedov, V.V. Kireev: "Zdorovye", 2013. - 343 p.
4. Ophthalmology. I.M. Bezkorovaina, V.V. Ryadnova, L.K. Voskresenska, ASMI, 2019. 222 p.
5. Practical ophthalmology: a textbook / S.E. Lekishvili - Sumy: Sumy State University, 2015. 234 p.
6. Pathology of the eye, its appendages and orbit. Volumes 1, 2: monograph / V.V. Vit. - Odesa: Astro-print, 2019. -1866 c.

Auxiliary

1. Anatomy of the eye. Methods of research in ophthalmology: a textbook for students of medical faculties / N.G. Zavgorodnia, L.E. Sarzhevska, O.M. Ivakhnenko [et al.
2. Ophthalmological care in Ukraine during the years of independence / Moiseenko R.O., Golubchikov M.V., Mikhalechuk V.M., Rykov S.O. and others (35 people in total) // Analytical and statistical reference book - Kropyvnytskyi: "Polium, 2019. - 328 c.
3. Retinoblastoma: a monograph / edited by N.F. Bobrova. - Odesa: Publishing Centre, 2020. 324 p.

Information resources:

AAO EyeSmart

Site includes reference material and videos on eye conditions for patients.aao.org All About Vision

Information on eye health and vision correction options.allaboutvision.com ARVO Journals

Index of journals from the Association for Research in Vision and Ophthalmology.arvojournals.org Atlas of Ophthalmology

Database of eye disease images with detailed descriptions and diagnostic test information.atlasophthalmology.net

Canadian Neuro-ophthalmology Group

Educational neuro-ophthalmology resource featuring a learning library and case archive.neuroophthalmology.ca

Cybersight

Non-profit offering free surgical videos, lectures, textbooks, and quizzes.cybersight.org Eye Guru

Structured educational platform designed to make ophthalmology easier to learn.eyeguru.org EyeRounds

Repository of case presentations and clinical atlases developed at University of Iowa.eyerounds.org EyeTube

High quality ophthalmic surgical videos and panel discussions.eyetube.net Look After Your Eyes

Important information on eye health, examinations, and conditions from the College of Optometrists.lookafteryoureyes.org

Modern Optometry

Latest developments and in depth analysis of issues relevant to practicing optometrists. modernmod.com

National Center for Children's Vision and Eye Health

Building awareness of the significance of vision disorders and promoting vision and eye health. nationalcenter.preventblindness.org

National Eye Institute

Federal institute supporting research, training, and health information dissemination. nei.nih.gov NEI-VR: See What I See

Experience what it's like to live with vision loss from common eye diseases. nei.nih.gov - App Only Neuro-Ophthalmology Virtual Education Library

Open access repository of articles, images, videos, and lectures on neuro-ophthalmology. novel.utah.edu Ophthalmology Times



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Recommended sources of information

Presents advancements in eye surgery, drug therapy, technology, and clinical diagnosis.

ophthalmologytimes.com

Ophthalmology Web

Informative, educational, and dynamic online community space for eye care physicians.

ophthalmologyweb.com

Prevent Blindness

Consumer site that provides fact sheets and information on a variety of eye conditions.

preventblindness.org Retina Gallery

High quality images of retinal diseases and discussion of interesting retina cases. retinagallery.com

Touch Ophthalmology

Concise peer-reviewed, open access articles. Publisher of The US Ophthalmic Review.

touchophthalmology.com

Vision Center

In depth articles on eye conditions and vision correction treatments. visioncenter.org

Webvision

Online textbook covering all things related to the bioscience of the visual system. webvision.med.utah.edu

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Tips for successful studying on the course

If you want to be successful in this discipline, you need to:

1. Be active, persistent, inquisitive, consistent
2. Be tidy and polite
3. Systematically prepare for practical classes
4. Perform tasks for independent work and defend them in class.
5. To be present at the class in a medical gown
6. To solve tests and tasks independently, to work actively in class.
7. Prepare presentations and crosswords on the discipline. Participate in student scientific conferences and engage in research work in the department's scientific circles.

I wish you perseverance, dedication and motivation to learn. And then success will come to you! See you in class!

Don't forget your medical gowns!