MINISTRY OF HEALTH OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY

Faculty dental, international

Department of Ophthalmology

Syllabus of the academic discipline
" OPHTHALMOLOGY "

Scope of the academic discipline	Total number of hours per discipline: 30 hours, 1 credit. Semesters: VII-VIII. 4 year of education,
Days, time, place of educational discipline	According to the schedule of classes. Department of Ophthalmology. Odesa, str. Olhiivska, 4 (Eye Microsurgery Center of the Multidisciplinary Medical Center of ONMedU, 1-2 floors, auditorium, classrooms); Odesa, 49/51 French Boulevard, laboratory building, 2nd floor, auditorium, classroom).
Teacher(s)	Head of Department, Doctor of Medicine, Prof. Venger Liudmyla Vilenivna Doctor of Medicine, Prof. Konovalova Natalya Valeriivna Associate Professor, Ph.D. Yepisheva Svitlana Mykolaivna Associate Professor, Ph.D. Ivanytska Olena Vyacheslavivna Assistant Tereshchenko Anastasia Anatoliivna Assistant Kovtun Oleksiy Valeriyovych Assistant Diachkova Zinaida Eduardivna
Contact Information	Phone help: Venger Liudmyla Vilenivna, head of the department (048) 723-42-98 Yepisheva Svitlana Mykolaivna, head teacher of the department 093-849-49-18 E-mail: eyeklinik@onmedu.edu.ua; eyeklinik@i.ua Face-to-face consultations: from 14:00 to 17:00 every Thursday, from 9:00 to 12:00 every Saturday Online consultations: from 14:00 to 17:00 every Thursday, from 9:00 to 12:00 every Saturday. The link to the online consultation is provided to each group during classes separately.

COMMUNICATION

Communication with applicants will be conducted in the classroom (face-to-face).

During distance learning, communication is carried out through the Microsoft Teams platform, as well as through email correspondence, through Viber, Telegram or WhatsApp messengers (through chats created in these messengers for each group, separately through the head of the group).

ABSTRACT OF THE EDUCATIONAL DISCIPLINE

Subject of discipline study «Ophthalmology» - methods of study of the organ of vision and its appendages, etiology, pathogenesis, diagnosis and treatment of the most common ophthalmic diseases, general issues of inflammatory diseases of the organ of vision.

Prerequisites: applicants need basic knowledge of medical and biological physics to study the discipline; on human anatomy; in microbiology, virology and immunology; from physiology; from internal diseases; from surgery; from pathophysiology - to interpret the causes, mechanisms of development and manifestations of typical pathological processes; from neurology - to determine the main symptoms and syndromes of damage to various parts of the nervous system; from otorhinolaryngology - make a preliminary diagnosis of the most common ENT diseases and injuries.

Post-requisites: mastering the educational material of the discipline "Ophthalmology" allows to form the ability to use the acquired knowledge, skills and understanding in ophthalmology to solve typical problems of physician in the field of health care in the relevant position, the scope of which is provided by certain lists and diseases that require special tactics for patients, urgent conditions, laboratory and instrumental studies, medical manipulations.

The purpose of discipline: mastering by the applicant of the higher education of knowledge and forming elements of professional competences in the field of ophthalmology and improving the skills and competences acquired in the study of previous disciplines.

Tasks of the discipline:

1. Formation of systematized knowledge on the organization of ophthalmic care.
2. Formation of systematized knowledge on the examination of an ophthalmic patient, methods of diagnosis, treatment and prevention of the most common ophthalmic diseases.
3. Mastering the ability to determine the tactics of emergency ophthalmic care, diagnose traumatic injuries of the organ of vision and its appendages, and provide first aid.

Expected results

As a result of studying the academic discipline, the student of higher education should:

– ***know:***

• the technique and features of the patient's examination with ophthalmopathology;
• clinic, diagnosis and treatment of purulent-inflammatory diseases of the appendages of the organ of vision, conjunctiva and cornea;
• diagnosis of inflammatory diseases of the choroid of the eye, clinical manifestations, differential diagnosis, features of treatment;
• tactics for detecting glaucoma, clinical manifestations of various stages, their diagnosis, measures of conservative and surgical treatment.

– ***be able:***
– • to conduct anamnesis and an objective examination of an ophthalmic patient;
– • diagnose a variety of inflammatory and non -inflammatory processes of the organ of vision and its appendages;
– • choose the appropriate conservative tactics for different stages of development of inflammation of the organ of vision and its appendages;
– • to provide first aid in various traumatic injuries of the organ of vision and its appendages.

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of lectures (4 hours), practical (14 hours), organization of the applicant's independent work (12 hours).

Teaching methods: *verbal:* lectures (problematic, lectures with analysis of specific situations), explanation, discussion, discussion of clinical situations; *visual:* illustrations (including multimedia

presentations), demonstrations, the method of direct observation; *practical:* solving clinical tasks; performance of individual tasks.

Content of the academic discipline «Ophthalmology».

Topic 1. Refraction and accommodation of the eye. Strabismus.

Development of an algorithm for survey, examination and medical management of a patient with ametropia.

Topic 2. Diseases of the eyelids, lacrimal organs, conjunctiva.

Development of an algorithm for examination and medical management of a patient with pathology of the accessory eye apparatus, conjunctivitis.

Topic 3. Corneal and sclera disease. Diagnosis, treatment.

Developing an examination algorithm and medical management of a patient with corneal pathology.

Topic 4. Diseases of the choroid. Diagnosis, treatment.

Development of an algorithm for examination and medical management of a patient with pathology of the choroid of the eye.

Topic 5. Lens pathology.

Development of an algorithm for examination and medical management of a patient with cataract.

Topic 6. Glaucoma. Methods of research of intraocular pressure.

Developing an examination algorithm and medical conduct of a patient with glaucoma.

Topic 7. Sudden decrease in vision. Diseases of the retina and optic nerve.

Development of an algorithm for examination and medical management of a patient with pathology of the retina or optic nerve.

List of recommended literature:

Basic:

1. Ophthalmology: textbook / O. P. Vitovska, P. A. Bezditko, I. M. Bezkorovayna et al.; edited by O. P. Vitovska. -2nd edition. - Kyiv: AUS Medicine Publishing, 2020. - 648 p.
2. Ophthalmology: textbook / O. P. Vitovska, P. A. Bezditko, I. M. Bezkorovayna et al.; edited by O. P. Vitovska. - Kyiv: AUS Medicine Publishing, 2017. - 648 p.
3. Atlas of Glaucoma. Second edition: textbook / Neil T. Choplin, Diane C. Lundy. - Informa healthcare, United Kingdom, 2007. -364 p. ISBN-10: 1841845183.
4. Common Eye Diseases and their Management: textbook / N. R. Galloway, W.M.K. Amoaku, P. H. Galloway and A. C. Browning; -Springer - Verlag London Limited, 2006. – 208 p. ISBN 1-85233-050-32.
5. Ophthalmology at a Glance: textbook / JANE OLVER, LORRAINE CASSIDY; - by Blackwell Science Ltd a Blackwell Publishing company, USA, 2005. -113 p. ISBN-10: 0-632-06473-0.

Additional:

1. Eye Diseases. Course of lectures: textbook / G. E. Venger, A. M. Soldatova, L. V. Venger; edited by V. M.Zaporozhan. - Odessa: Odessa Medical University, 2005. – 157p.
2. Ophthalmology: textbook. / Gerhard K. Lang, edited by J. Amann, O. Gareis, Gabriele E. Lang, Doris Recker, C.W. Spraul, P. Wagner. - Thieme Stuttgart. New York, 2000. - 604 p. ISBN 0-86577-936-8.
3. EYE Atlas. Online Atlas of Ophthalmology. / All rights Reserved, Oculisti Online. Copyright 2001. - 408 p.
4. ABC of Eyes, Fourth Edition: textbook / P. T. Khaw, P. Shah, A. R. Elkington. - by BMJ Publishing Group Ltd, BMA House, Tavistock Square, London, 2005. - 97 p. ISBN 0 7279 1659

Electronic information resources

1. https://info.odmu.edu.ua/chair/ophthalmology/
2. https://repo.odmu.edu.ua/xmlui/
3. http://library.gov.ua/
4. http://www.nbuv.gov.ua/
5. https://library.gov.ua/svitovi-e-resursy/dir_category/general/
6. http://nmuofficial.com/zagalni-vidomosti/biblioteky/
7. https://guidelines.moz.gov.ua/documents
8. www.ama-assn.org –American Medical Association
9. www.dec.gov.ua/mtd/home/
10. http://bma.org.uk
11. www.gmc-uk.org

EVALUATION

During the classes, various *forms and methods* of current discipline control are used: oral survey, testing, evaluation of performance of practical skills, solution of situational clinical tasks, evaluation of activity. The current educational activity of the applicant is evaluated in a practical session according to a traditional 4-point scale.

Current evaluation criteria in practical training

«5»	«4»	«3»	«2»
Criteria for evaluating practical skills			
The student of higher education independently performed this or that practical skill, clearly chose the necessary method of providing assistance in this or that clinical situation	The student of higher education independently performed this or that practical skill, but at the same time made two or three insignificant mistakes.	A student of higher education cannot independently choose an adequate method of assistance in this or that clinical situation, makes gross mistakes when performing practical skills	A student of higher education does not demonstrate knowledge of how to provide assistance in a particular clinical situation, cannot give any correct answer to a question.
The criteria for evaluating theoretical knowledge			
The student of higher education independently, clearly and consistently, with exhaustive completeness, using data from additional literature, answered all the questions.	The student of higher education maturely orients himself in the material, but when answering, he made two or three fundamentally unimportant mistakes.	A student of higher education knows the factual material in the full scope of the discipline program, but finds it difficult to independently and systematically present the answers, forcing the teacher to offer him leading questions.	The student of higher education does not demonstrate knowledge and is poorly oriented in the main theoretical material of the ophthalmology course, which is revealed by offering him additional questions.
Criteria for evaluating the performance of test tasks			
90-100 %	70-80 %	50-60 %	Less than 50 %
Evaluation criteria for solving situational problems			
3 from 3	2 from 3	1 from 3	none have been resolved
Criteria for evaluating the activity of a student of higher education			

Very active	Active	Less active	Passive
The student of higher education works actively during the entire practical session, is able to express his own attitude to alternative considerations on the given problem, demonstrates the ability to independently and reasonedly present the material, analyze phenomena and facts, make independent generalizations and conclusions. Shows the ability to work in a group (is a leader), plan time, produce new ideas, evaluate the quality of the work performed, be critical and self-critical, evaluate his knowledge and the knowledge of others.	The student of higher education actively works during the practical session, the presentation of the material is logical, the coverage of issues is completed with conclusions, the student has demonstrated the ability to perform educational tasks. Shows the ability to work in a group, plan time, produce new ideas, evaluate the quality of the work performed, be critical and self-critical, evaluate his knowledge and the knowledge of others. But in order to manifest its qualities, it needs an external stimulus.	The student of higher education has generally mastered the essence of questions on this topic, tries to analyze questions, draw conclusions and solve problems. But he behaves passively in class, he responds only when called upon by the teacher. Does not show activity in the group, or only after the leader's remark.	A student of higher education does not show activity when working independently and as part of a group. Shows lack of interest and desire to work.

The form of final control is the credit.

Credit are carried out by scientific and pedagogical workers who conducted practical classes in an academic group. Applicants of higher education who have completed the curriculum in the educational component in full, have no academic debt, their current grade point average is 3.00 or more, receive credit in the last class, which is presented as "passed" / "failed".

If a higher education applicant has received a minimum average score of 3.00 for current performance, even if there are unworked unsatisfactory grades, he or she receives a credit.

Opportunity and Conditions for obtaining additional (bonus) points*: not provided*.

INDEPENDENT WORK OF HIGHER EDUCATION ACQUIRES

Independent work involves preparation for each practical session.

EDUCATIONAL DISCIPLINE POLICY

Deadlines and Rescheduling Policy

- Absences of classes for non-respectable reasons will be worked out according to the schedule of the teacher on duty.
- Absences for valid reasons are worked out according to an individual schedule with the permission of the dean's office.

Academic Integrity Policy

Observance of academic integrity by applicants is mandatory, namely:

♦ independent performance of educational tasks, tasks of current and final control, provided for by the work program of this educational discipline;

♦ link to sources of information in the case of using ideas, development, statements, information;

♦ provision of reliable information about the results of one's own (scientific, creative) activity, used research methods and sources of information.

It is unacceptable in educational activities for the participants of the educational process:

- using family or work connections to obtain a positive or higher grade in any form of control of academic performance or academic performance;
- use during control measures of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-masters, smartphones, tablets, etc.);
- going through procedures for monitoring the results of training by fake persons.

For violations of academic integrity, students may be held to such academic responsibility:

- decrease in evaluation results (control work, differentiated credit);
- re -passing the evaluation (control work, differentiated credit);
- appointment of additional control measures (additional individual tasks, control work, tests, etc.);

Attendance and Tardiness Policy

Attending lectures and practical classes is mandatory. If you are late for more than 15 minutes, the class is considered missed and you need to make up for it in the general manner.

Uniform: a medical gown that completely covers the outer clothing, or medical pajamas, a cap, a mask, and a change of footwear.

Equipment: notebook, pen.

Health: students with acute infectious diseases, including respiratory diseases, are not allowed.

***Use of mobile devices*:**

Mobile devices can be applied by the teacher's permission if they are required to complete the task.

Behavior in the audience

The behavior of applicants and teachers in the classrooms should be working and calm, strictly comply with the rules established by the Regulation on academic integrity and ethics of academic relations at ONMedU, in accordance with the Code of academic ethics and relations of the university community of ONMedU, the Regulation on prevention and detection of academic plagiarism in scientific research and educational work of students of higher education, scientists and teachers of ONMedU.