




FACULTY OF STOMATOLOGY

STUDY PROGRAM 0911.1 STOMATOLOGY

CHAIR OF OPHTHALMOLOGY

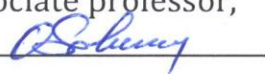
APPROVED

at the meeting of the Committee for Quality Assurance and Evaluation of the Curriculum Faculty of Stomatology
Minutes No. 2 of 30.01.2025


Committee President,
PhD, DMS, Associate professor,
Zanoaga Oleg 

APPROVED

at the Council meeting
of the Faculty of Stomatology
Minutes No. 04 of 04.03.2025

Dean of Faculty of Stomatology
PhD, DMS, Associate professor,
Solomon Oleg 

APPROVED

at the meeting of the chair Ophthalmology
Minutes No. 2 of 15.10.2024
Head of chair PhD, professor
Bendelic Eugeniu 



SYLLABUS

DISCIPLINE OPHTHALMOLOGY

Integrated studies

Type of course: **Compulsory**

Curriculum developed by the team of authors:

Bendelic Eugeniu, PhD, professor
Paduca Ala, dr. of med., associate professor
Corduneanu Angela, dr. of med., associate professor
Jeru Ion, PhD, associate professor
Ivanov Gheorghe, dr. of med., associate professor
Șcerbatiuc Cristina, dr. of med., associate professor
Iacubițchii Maria, university assistant



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I. INTRODUCTION

- **General presentation of the discipline: place and role of the discipline in the formation of the specific competences of the professional/specialty training program**

Ophthalmology is a specialty, which deals with the detection, diagnosis, treatment and recovery of patients with diseases of eyeball and its accessory structures. Ophthalmology is an interdisciplinary, integrative clinical medical discipline, the study of which at the university level will allow the achievement of the necessary skills to support a correct diagnosis based on anamnesis, clinical and paraclinical examination, and the practical skills required to solve emergency ophthalmological cases.

- **Mission of the curriculum (aim) in professional training**

One of the main objectives of the course is to acquire basic knowledge of notions in ophthalmological semiology and propedeutics. The second objective is to develop the professional capacities to provide emergency medical care in ophthalmology. At the level of understanding, an important objective is the interdisciplinary aspect within the specialties of ophthalmology - dentistry, the third objective providing the knowledge for recognition of odontogenic ocular pathologies and to apply the necessary diagnostic and management methods.

- **Language of the discipline:** Romanian, English and Russian.
- **Beneficiaries:** students of the III year, faculty of of Stomatology.

II. MANAGEMENT OF THE DISCIPLINE

Code of discipline	S.06.O.058		
Name of the discipline	Ophthalmology		
Person(s) in charge of the discipline	Professor Eugeniu Bendelic; associate professor Ala Paduca		
Year	III	Semester/Semesters	VI
Total number of hours, including:			60
Lectures	15	Practical/laboratory hours	15
Seminars	15	Self-training	15
Form of assessment	E	Number of credits	2

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III. TRAINING AIMS WITHIN THE DISCIPLINE

At the end of the discipline study the student will be able to:

- **at the level of knowledge and understanding:**
 - ✓ To identify anatomical and physiological features of the visual system;
 - ✓ To know the particularities of the ophthalmic examination and the directions for their application;
 - ✓ To know thoroughly the etiopathogenesis, clinical features, diagnosis, treatment principles and prevention of the most common ocular diseases; especially the odontogenic ocular diseases;
 - ✓ To know the principles of first aid in emergency eye conditions.
- **at the application level:**
 - ✓ To take the anamnesis and evaluate the data about visual system functions;
 - ✓ To recognize a possible odontogenic cause of ocular pathology and to apply the necessary diagnostic and management methods;
 - ✓ To perform the basic ophthalmologic examination;
 - ✓ To evaluate the results of clinical trials and tests, additional diagnostic investigations to appreciate the functional status of the visual system;
 - ✓ To apply the methods of examination of emergency patient, evaluate these results and provide the necessary first aid.
- **at the integration level:**
 - ✓ To appreciate the importance of ophthalmology in the context of Medicine and integration with related medical disciplines;
 - ✓ To appreciate the evolution of the physiological processes and etiology of the pathological processes of the visual system;
 - ✓ To have skills to implement and integrate clinical knowledge;
 - ✓ To be able to assimilate new achievements in clinical disciplines.

IV. PROVISIONAL TERMS AND CONDITIONS

Student of the III year requires the following:

- ✓ knowledge of the language of education;
- ✓ competences in lyceum sciences (biology, physics) and thorough knowledge gained in fundamental disciplines such as: anatomy, physiology, biochemistry and others.
- ✓ digital competences (use of the Internet, processing of documents, electronic tables and presentations, use of graphics programs);
- ✓ ability to communicate and to work in a team;
- ✓ such qualities, as tolerance, compassion, autonomy.

V. THEMES AND ESTIMATE ALLOCATION OF HOURS

Lectures, practical hours/ laboratory hours/seminars and self-training

No. d/o	THEME	Number of hours			
		Lectures	Seminars	Practical hours	Self-training
1.	Ophthalmology. Importance of ophthalmology. Interdisciplinary correlations dentistry - ophthalmology.	1	1	1	-



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No. d/o	THEME	Number of hours			
		Lectures	Seminars	Practical hours	Self- training
2.	Anatomic and clinical features of the visual analyzer. Three segments of the visual analyzer according to Pavlov. Particularities of the orbital structure and the orbital relation with the paranasal sinuses. Accessory structures of the eye: the eyelids, the lacrimal system and the conjunctiva: structure and functions. Coats of the eyeball: external (cornea and sclera), medium (uvea), internal (retina): structure and functions. Structure of the anterior chamber angle. Ways of production and evacuation of the aqueous humor. Content of the eyeball: the lens, the vitreous and the aqueous humor. Optical pathway of visual system. Oculo-motor system. Oculo-motor nerves.	1	1	1	1,5
3.	Functions of the visual system, its possible disturbances and examination methods. Function of rods and cones, the importance of vitamin A in the visual act. Photosensitivity, its disturbances and examination methods. Central vision, examination methods. Peripheral vision, major disturbances and examination methods. Chromatic sense: anomalies of the chromatic sense (congenital, acquired), examination methods.	1	1	1	1
4.	Clinical refraction and accommodation of the eye. Optical system of the eye. Clinical refraction and examination methods. Hypermetropia: classification, clinical manifestations, treatment. Myopia: classification, clinical manifestations, complications, treatment. Accommodation of the eye. Disorders of accommodation.	1	1	1	1
5.	Binocular vision and its disturbances. Neutralization, amblyopia. Examination methods for binocular vision. Notions in strabismus - classification, etiology, pathogenesis, clinical manifestations. Comitant strabismus vs. parietic strabismus. Methods of examination. The management of strabismus. Methods of prophylaxis.	1	1	1	1
6.	Diseases of the eyelid, conjunctiva, and lacrimal system. Blepharitis: etiology, clinical manifestations, treatment. Blepharospasm, ptosis, lagophthalmos: causes, treatment. Hordeolum (stye): clinical manifestations, treatment. Chalazion: etiology, clinical manifestations, treatment. Benign and malignant eyelid tumors: clinical manifestations, treatment. Dacryoadenitis: clinical manifestations, treatment. Acute and chronic	1	1	1	1



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No. d/o	THEME	Number of hours			
		Lectures	Seminars	Practical hours	Self-training
	dacryocystitis: clinical manifestations, treatment. Bacterial, viral and allergic conjunctivitis: clinical manifestations, treatment, prophylaxis.				
7.	Odontogenic oculo-orbital diseases. Orbital cellulites.	1	0,5	0,5	1
8.	Diseases of the cornea and sclera. Classification of keratitis and etiological factors. Serpiginous corneal ulcer: clinical manifestations, treatment. Viral (herpetic) keratitis: clinical manifestations, treatment. Interstitial (syphilitic and tuberculous) keratitis: clinical manifestations, treatment. Keratoconus. Episcleritis and scleritis: etiology, clinical manifestations, treatment.	1	1	1	1
9.	Congenital and acquired diseases of the lens. Congenital cataract: etiologic factors, clinical manifestations, treatment. Acquired cataract, etiologic factors, clinical manifestations, treatment	1	1	1	1
10.	Glaucoma. Classification, pathogenesis and methods of diagnosis. Primary open-angle glaucoma: clinical manifestations, treatment. Acute glaucoma: clinical manifestations, differential diagnosis, treatment. Secondary glaucoma: etiology, clinical manifestations. Congenital glaucoma: clinical manifestations, treatment..	1	1	1	1
11.	Diseases of the uvea. Uveitis: classification, etiology. Iridocyclitis: clinical manifestations, treatment. Choroiditis: clinical manifestations, treatment.	1	1	1	1
12.	Diseases of the retina and optic nerve. Retinal vessel spasm, embolism (occlusion) and thrombosis, clinical manifestations, emergency medical care. Pathology of the eye in diabetes mellitus, hypertension and kidney diseases. Intraocular tumors: diagnosis, treatment. Retinal detachment: clinical manifestations, treatment. Optic neuritis (papillitis and retrobulbar neuritis). Papillary stasis, optic nerve atrophy, etiologic factors, clinical manifestations, treatment.	1	1	1	1
13.	Mechanical eye trauma. Causes and forms of eye trauma. Clinical signs of orbital lesions, treatment. Eyelid, conjunctival lesions. Eye contusions: clinical manifestations, treatment. Ocular penetrating trauma: clinical manifestations, treatment. Sympathetic ophthalmia: etiology, clinical manifestations, treatment.	1	1	1	1



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No. d/o	THEME	Number of hours			
		Lectures	Seminars	Practical hours	Self-training
14.	Ocular burns. Ocular actinic burns: treatment, prophylaxis. Ocular chemical burns: clinical manifestations, treatment. Particularities of trauma in children and its prophylaxis.	1	0,5	0,5	1,5
17.	SUMMARY. Practical skills	-	1	1	-
TOTAL		15	15	15	15
		60			

VI. PRACTICAL TOOLS PURCHASED AT THE END OF THE COURSE

Mandatory essential practical tools are:

- ✓ Eyelids and anterior segment examination;
- ✓ Visual Acuity Examination;
- ✓ Visual Field Examination;
- ✓ Chromatic vision examination;
- ✓ Examination of binocular vision and eye movements;
- ✓ Light sensibility examination;
- ✓ Eye refraction examination;
- ✓ General rules in prescriptions of glasses for: Myopia, Hyperopia, Presbyopia;
- ✓ Squint examination: Hirschberg method and Cover test;
- ✓ Examination of lacrimal system (permeability and function);
- ✓ Examination of Pupillary reflex;
- ✓ Intraocular pressure (IOP) Measurement;
- ✓ Ocular Chemical Burn - (emergency) treatment;
- ✓ Removing of Conjunctival Foreign Body and Corneal Foreign Body;
- ✓ Localizations of Intraocular Foreign Body;
- ✓ Posterior Segment Examination (Retinoscopy);
- ✓ General rules in ocular drops instillation and application ointment.

VII. OBJECTIVES AND CONTENT UNITS

Objective	Content units
Chapter 1. Anatomic and clinical features of the visual analyzer. Functions of the visual system.	
<ul style="list-style-type: none"> • To define the notions in clinical semiology of the visual system. • To know the structure and functions of the eyeball and accessory structures of the eye. • To demonstrate the examination of the accessory structures of the eye, the anterior pole of the eye (with diffuse light, focused light). • To apply the collection and interpretation of the ophthalmological anamnesis. 	<p>Accessory structures of the eye: the eyelids, the lacrimal system and the conjunctiva: structure and functions. Coats of the eyeball: external (cornea and sclera), medium (uvea), internal (retina): structure and functions. Structure of the anterior chamber angle. Ways of production and evacuation of the aqueous humor. Content of the eyeball: the lens, the vitreous and the aqueous humor. Optical pathway of visual system. Oculo-motor system.</p>



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Objective	Content units
<ul style="list-style-type: none">• To determine the light perception and its disturbances; to determine visual acuity (VA) in adults and children• To possess skills for local administration of ophthalmic medicines.• To examine the visual field (comparative method, perimetry, campimetry), visual field disturbances: scotomas, hemianopsias, etc. and to interpret them• To determine the chromatic sense and detect dyschromatopsia.	Oculo-motor nerves. Function of rods and cones, the importance of vitamin A in the visual act. Photosensitivity, its disturbances and examination methods. Central vision, examination methods. Peripheral vision, major disturbances and examination methods. Chromatic sense: anomalies of the chromatic sense (congenital, acquired), examination methods.
Chapter 2. Clinical optics (refraction) of the eye. Accommodation of the eye.	
<ul style="list-style-type: none">• To know the basic symptoms of the ocular refraction errors• To detect refractive errors by the subjective method• To know the basic principles of management of ocular refractive errors• To know the mechanism of ocular accommodation and its disorders• To know the principle of optical management of presbyopia	Clinical and physical refraction. Errors of ocular refraction - Myopia, Hypermetropia - symptomatology, management. Accommodation of the eye. Disorders of accommodation - presbyopia, spasm of accommodation, paralysis of accommodation
Chapter 3. Binocular vision and its disturbances. Notions in strabismus.	
<ul style="list-style-type: none">• To know the mechanism of binocular vision development, its importance• To know the basic methods of examination of binocular vision• To know the major binocular and monocular vision disorders.• To know the major types and forms of strabismus• To be able to distinguish a functional strabismus from a paralytic one• To know the basic principles of strabismus management	Binocular vision - development, examination. Disorders of binocular and monocular vision, neutralization and amblyopia - causes, management, prophylaxis. Notions in strabismus. Differential diagnosis of paralytic and functional strabismus. Management of patients with strabismus and prophylaxis.
Chapter 4. Diseases of the eyelid, conjunctiva, and lacrimal system. Diseases of the cornea and sclera. Odontogenicoculo-orbital diseases	
<ul style="list-style-type: none">• To perform eyelid eversion, examination of palpebral conjunctiva, inferior and superior conjunctival fornix and conjunctival layer of bulb• To define the symptoms of "dry eye" and "wet eye"• To differentiate the symptoms of bacterial conjunctivitis from viral and allergic conjunctivitis	Blepharitis. Blepharospasm, ptosis, lagophthalmos. Hordeolum. Chalazion. Benign and malignant eyelid tumors. Dacryoadenitis. Acute and chronic dacryocystitis. Bacterial, viral and allergic conjunctivitis. Pterygium. Diseases of the cornea and sclera. Serpiginous corneal ulcer. Viral (herpetic) keratitis. Interstitial (syphilitic and tuberculous) keratitis. Keratoconus. Episcleritis and



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Objective	Content units
<ul style="list-style-type: none">• To know the particularities of corneal disease symptoms (corneal syndrome) based on clinical cases• To examine corneal sensitivity with distinguishing of corneo-conjunctival lesions (fluorescein test).• To know oculo-orbital complications of odontogenic cause	scleritis. Odontogenic oculo-orbital diseases: Orbital cellulites.
Chapter 5. Congenital and acquired diseases of the lens. Glaucoma.	
<ul style="list-style-type: none">• To know the particularities of examining patients with lens diseases, based on clinical cases• To know general principles of cataract treatment and indications for surgical treatment• To integrate differentiation of primary open-angle and angle closure glaucoma symptoms• To know the general principles of examining intraocular pressure• To apply diagnostic methods to confirm or infirm glaucoma• To provide emergency medical care in acute glaucoma• To know the principles of complex glaucoma treatment	Congenital cataract. Acquired cataract. Glaucoma. Classification, pathogenesis and methods of diagnosis. Primary open-angle glaucoma. Acute glaucoma. Secondary glaucoma. Congenital glaucoma.
Chapter 6. Diseases of the uvea, retina and optic nerve.	
<ul style="list-style-type: none">• To examine the pupil reflexes• To examine the uveal tract and the posterior pole: optic nerve, macular region, retinal vessels, retinal periphery (principles of ophthalmoscopy).• To know the particularities of the symptoms of inflammatory diseases at different levels of the uveal tract.• To integrate acute iridocyclitis management into differential diagnosis• To know the particularities of retinal disease symptomatology based on clinical cases• To apply central artery and vein occlusion management.	Uveitis. Iridocyclitis. Choroiditis. Retinal vessel spasm, embolism (occlusion) and thrombosis. Pathology of the eye in diabetes mellitus, hypertension and kidney diseases. Intraocular tumors. Retinal detachment. Optical neuritis (papillitis and retrobulbar neuritis). Papillary stasis, optic nerve atrophy.
Chapter 7. Eye trauma	
<ul style="list-style-type: none">• To provide urgent medical first aid inconjunctival and corneal foreign bodies• To apply monocular and binocular bandages• To know the particularities of the symptomatology and the primary	Eye trauma. Orbital traumatic lesions. Eyelid, conjunctival lesions. Eye contusion. Ocular penetrating trauma. Sympathetic ophthalmia. Ocular actinic burns. Ocular chemical burns. Particularities of trauma in children.



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Objective	Content units
<p>management of penetrating ocular injuries</p> <ul style="list-style-type: none">• To know the methods of detection of intraocular foreign bodies• To know the particularities of symptomatology and medical care in ocular contusion• To provide emergency medical care in ocular burns• To perform lavage of the conjunctival sac• To know the particularities of pediatric ocular trauma• To know the possible causes of the development of ocular occupational diseases and their type.	Occupational eye diseases.

**VIII. PROFESSIONAL (SPECIFIC (SC)) AND TRANSVERSAL (TC)
COMPETENCES AND STUDY FINALITIES**

✓ **Professional (specific) (SC) competences**

- PC1. Responsible execution of professional tasks with the application of the values and norms of professional ethics, as well as the provisions of the legislation in force.
- PC2. Adequate knowledge of the sciences about the structure of the body, physiological functions and behavior of the human body in various physiological and pathological conditions, as well as the relationships between health, physical and social environment.
- PC3. Resolving clinical situations by developing a plan for diagnosis, treatment and rehabilitation in various pathological situations and selecting appropriate therapeutic procedures for them, including providing emergency medical care.
- PC4. Promoting a healthy lifestyle, applying prevention and self-care measures.
- PC5. Interdisciplinary integration of the doctor's activity in a team with efficient use of all resources.
- PC6. Carrying out scientific research in the field of health and other branches of science.

✓ **Transversal competences (TC)**

- TC1. Autonomy and responsibility in the activity.

✓ **Study finalities**

Note. Discipline finalities (are deduced from the professional competences and the formative valences of the informational content of the discipline).

- To be able to implement the acquired knowledge in professional activity.
- To be competent to use critical and reliable scientific information obtained using the new information and communication technologies.
- To appreciate the importance of ophthalmology in the context of Medicine and integration with related medical disciplines.
- To supervise the pathological processes and to use the methods of investigation, treatment and prophylaxis of the emergency visual analyzer maladies and the ophthalmic disorders of odontogenic etiology.
- To have skills to implement and integrate clinical knowledge;
- To be able to assimilate new achievements in clinical disciplines.



IX. STUDENT'S SELF-TRAINING

No.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
1.	Work with information sources	<p>Mindful study of the lecture or the material in the manual on the theme.</p> <p>Reading the questions on the theme, which require a reflection on the subject.</p> <p>To get acquainted with the list of additional information sources on the topic. Select the source of additional information for that theme.</p> <p>Reading the text entirely, mindfully and writing the essential content.</p> <p>Formulating of generalizations and conclusions regarding the importance of the theme/subject.</p>	Ability to extract the essentials; interpretative skills; volume of work	During the semester
2.	Work with activity book	<p>To analyze the information and images on the respective subject in the lecture and handbook until solving the tasks in the notebook. Consecutive solving of tasks. Formulating conclusions at the end of each lesson. Verifying the finalities of the respective lesson and appreciating of their achievement. Selection of additional information, using electronic addresses and additional bibliography.</p>	Volume of work, solving of the situational problems, ability to formulate conclusions	During the semester
3.	Practice of different studying techniques		Volume of work, degree of understanding the essence of different topics, level of scientific argumentation, quality of conclusions, elements of creativity, demonstration of understanding the problem, formation of personal attitude	During the semester



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No.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
4.	Work with online sources	Online self-evaluation, study of online materials from the chair site, expressing own opinions through forum and chat.	Number and duration of entries on the site, self-evaluation results	During the semester
5.	Elaboration and presenting of presentations/portfolios	Choosing of the research theme, establishment of the research plan, setting the terms of realization. Establishing PowerPoint project / theme components - theme, purpose, results, conclusions, practical applications, bibliography. Colleagues reviews. Teacher reviews.	Volume of work, degree of understanding the essence of the project theme, the level of scientific argumentation, the quality of conclusions, elements of creativity, formation of the personal attitude, coherence of the explanation and the scientific correctness, graphic presentation, way of presentation.	During the semester

X. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-ASSESSMENT

• Teaching and learning methods used

The teaching of the Ophthalmology discipline uses different ways and didactic methods, oriented towards the efficient acquisition and achievement of the objectives of the didactic process. In the theoretical lessons, along with traditional methods (lesson-exposure, lesson-conversation, synthesis lesson), modern methods (lesson-discussion, lesson-conference, problem-lesson) are also used. There are used individual, frontal, group activity forms and virtual lab works in the practical hours. In order to assimilate deeper the material, different semiotic systems (scientific language, graphical and computerized language) and teaching materials (tables, diagrams, micro photographs, posters) are used. During the lessons and extracurricular activities there are used Communication Technologies - PowerPoint presentations, online lessons.

Recommended learning methods

- ✓ **Observation** - Identification of the elements characteristic for structures or biological phenomena, description of these elements or phenomena.
- ✓ **Analysis** - Imaginary decomposition of the whole into component parts. Highlighting the essential elements. Studying each element as part of the whole.
- ✓ **Scheme/figure analysis** - Selection of the necessary information. Recognition of structures shown in schemes and figures based on selected knowledge and information. Analysis of the functions/role of recognized structures.



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- ✓ **Comparison** - Analysis of the first object/process from a group and determination of its essential features. Analysis of the second object/process and determination of its essential features. Comparing objects/processes and highlighting common features. Comparing objects/processes and determining differences. Establishment of difference criteria. Formulation of conclusions.
 - ✓ **Classification** - Identification of the structures/processes that should be classified. Determining the criteria on which classification is should be made. Distribution of structures/processes by groups according to established criteria.
 - ✓ **Elaboration of the scheme** - Selection of elements, which must be included in the scheme. Interpretation of selected elements with different symbols/colors and indicating their relationships. Formulation of an appropriate title and legend of the symbols used.
 - ✓ **Modeling** - Identifying and selecting the elements needed to model the phenomenon. The imaging (graphical, schematic) of the studied phenomenon. Realizing the phenomenon using the developed model. Formulation of conclusions, deduced from arguments or findings.
 - ✓ **Experiment** - Formulation of a hypothesis, based on known facts, on the studied process/phenomenon. Verifying the hypothesis by performing the studied processes/phenomena in laboratory conditions. Formulation of conclusions, deduced from arguments or findings.
 - **Applied (specific to the discipline) teaching strategies / technologies**
"Brainstorming" "Multi-voting"; "Round table"; "Group Interview"; "Clinical case study"; "Creative Controversy"; "Focus-group technique".
 - **Methods of assessment (including the method of final mark calculation)**
 - ✓ **Current:** frontal and/or individual control through: a) applying docimological tests and b) analysis of case studies.
 - ✓ **Final:** Exam. The final exam is a standardized exam, scheduled in the exam sessions, which contains two evaluation modes: practical test and written test (SIMU).

Practical test. Student has 30 minutes for preparation after which the teacher examines the level reached in the training of practical skills, specific abilities and capacities according to the obligatory list. The test is scored from 0 to 10. The mark will be announced to the student at the end of the practical test.

Written test. The grid test includes variants of 50 questions each, from all subjects covered in the analytical curriculum of the discipline, according to the unique bibliography of the study discipline, displayed and announced to students at the beginning of the semester. The student has 50 minutes to complete the test. All students in the year support the grid test under the same conditions (same time interval). The score is from 0 to 10. ALL of the notes are posted public.
- The final mark will consist of the average mark of 6 (six) current tests (part 0.5), the marks of all of the final examination stages (practical skills - part 0.2, written test - part 0.3).

Method of mark rounding at different assessment stages

Intermediate marks scale (annual average, marks from the examination stages)	National Assessment System	ECTS Equivalent
1,00-3,00	2	F
3,01-4,99	4	FX
5,00	5	E

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Intermediate marks scale (annual average, marks from the examination stages)	National Assessment System	ECTS Equivalent
5,01-5,50	5,5	
5,51-6,0	6	
6,01-6,50	6,5	D
6,51-7,00	7	
7,01-7,50	7,5	C
7,51-8,00	8	
8,01-8,50	8,5	B
8,51-9,00	9	
9,01-9,50	9,5	A
9,51-10,0	10	

The average annual mark and the marks of all stages of final examination (computer assisted, test, oral) - are expressed in numbers according to the mark scale (according to the table), and the final mark obtained is expressed in number with two decimals, which is transferred to student's record-book.

Absence on examination without good reason is recorded as "absent" and is equivalent to 0 (zero). The student has the right to have two re-examinations in the failed exam.

XI. RECOMMENDED LITERATURE:

A. Compulsory:

1. Lectures materials.
2. International Council of Ophthalmology Handbook for Medical Students Learning Ophthalmology [PDF]. ICO Handbook for Medical Students Learning Ophthalmology. www.icoph.org/downloads/icomedicalstudentenglish.pdf
3. Nicula, Cristina. Ophthalmology/C. Nicula; University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca. - Cluj-Napoca: Editura Medicală Universitară "Iuliu Hațieganu", 2011. - 136 p.. - ISBN 978-973-693-435-3.

B. Additional:

1. Practical Ophthalmology (PDF Download Available). https://www.researchgate.net/publication/316107859_Practical_Ophthalmology
2. Ophthalmology. A Short Textbook, New York, 2000, Gerhard K. Lang, M. D. 305 Illustrations. www.gulfkids.com/pdf/ATLAS%20-%20Ophthalmology.pdf
3. Kanski J. Clinical Ophthalmology a systematic approach. – Oxford, 2002.