

**SYLLABUS**  
**concerning the cycle of education 2022-2028**

(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

Subject / Module	<b>Ophthalmology</b>
Course code / module *	<b>Ok/F</b>
Faculty of (name of the leading direction)	<b>Medical College of Rzeszów University</b>
Department Name	<b>Medical College of Rzeszów University</b>
Field of study	<b>medical direction</b>
Level of education	<b>uniform master's studies</b>
Profile	<b>practical</b>
Form of study	<b>stationary / extramural</b>
Year and semester	<b>year IV, semester VIII</b>
Type of course	<b>obligatory</b>
Coordinator	<b>dr hab. n. med. Michael Koss</b>
First and Last Name of the Teacher	

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
-	15	-	-	15	-	-	-	<b>1</b>

**1.3. The form of class activities**

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module (exam, credit with grade or credit without grade)**

**2. REQUIREMENTS**

Knowledge of the anatomy of the organ of sight
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**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

**3.1. Objectives of this course/module**

C1	Acquainting with the basic methods of examination of the eye organs
C2	Acquainting with the differential diagnosis of eye and headaches, with particular emphasis on glaucoma, inflammatory diseases of the eye, sometimes associated with disorders or sudden loss of vision.
C3	Getting to know first aid in various random events regarding the eye and sight.
C4	Acquainting with the possibility of supplementing and broadening the diagnosis of general diseases based on an ophthalmological examination.
C5	Acquainting with undesirable symptoms for the organ of sight in the course of treatment of general diseases.
C6	Acquainting with physiology and conditions for the proper development of vision from birth and prevention of amblyopia and improper positioning of the eyes and / or head.
C7	Acquainting with eye diseases related to genetic disorders.
C8	Acquainting with the function of the elderly in the eyes.
C9	Acquainting with modern methods of diagnosis and treatment, including the basics of surgical treatment of eye diseases.
C10	Acquainting with ethical principles in the examination and treatment of people with vision disease.

### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

<b>EK (the effect of education)</b>	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
<b>EK_01</b>	<p>He knows the diseases of the eye, in particular:</p> <p>a) knows and explains the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common ophthalmologic diseases.</p> <p>b) knows the ophthalmological complications of systemic diseases along with their ophthalmologic symptomatology and the proper methods of dealing with these cases,</p> <p>c) surgical procedures in individual eye diseases,</p> <p>d) knows the basic groups of drugs used in ophthalmology, their side effects and interactions,</p> <p>e) knows the group of drugs used in general with opiate complications and contraindications, and explains their mechanism;</p>	F.W11.
<b>EK_02</b>	Performs an ophthalmic screening test.	F.U19

<b>EK_03</b>	Recognizes ophthalmologic conditions requiring immediate specialist help and provides initial, quantified help in cases of physical and chemical injuries of the eye.	F.U20
<b>EK_04</b>	He is able to establish and maintain a deep and respectful contact with the patient	K.01.

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Lectures

<b>Course contents</b>
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#### B. Exercises

<b>Course contents</b>
Making and interpreting diagnostic tests in glaucoma. Types of perimetry. Color vision testing.
Operative treatment in ophthalmology
The importance of fluorescein angiography. Amsler's test. Fundus examination.
Differences in the examination and treatment of children. Presentation of patients
Removal of a foreign body from the conjunctival sac and cornea, first aid in cases of eye burns and appendages, rules for the supply of organ injuries sight. Examination.

#### C. Seminars

<b>Course contents</b>
Glaucoma and other neuropathies of the optic nerve: ischemic, inflammatory, and compression.
Introduction to ophthalmic surgery
Retinal diseases: inflammation, detachment, degeneration (AMD), embolism and retinal blood clots. Changes in the bottom of the eye in hypertension, diabetes and atherosclerosis
Diseases of the eyesight organ in children. Retinopathy of premature babies.
Injuries of the organ of sight. Toxic neuropathies of the optic nerve. Occupational diseases.

### 3.4 TEACHING METHODS

**Exercises:** practical exercises, demonstration, lecture form.

**Seminars:** multimedia presentation, lecture form.

**Student's own work:** work with a book

#### 4 METHODS AND EVALUATION CRITERIA

##### 4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01	Written exam	Lecture
EK_02	Practical pass	Exercises
EK_03	Practical pass	Exercises
EK_04	Practical pass	Exercises

##### 4.2 Conditions for completing the course (evaluation criteria)

###### **Lecture (EK\_01):**

###### **Written exam**

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

###### **Exercises and Seminars (EK\_02, EK\_03):**

- pass with an assessment including:

- attendance

- activity on exercises

- grades from partial tests

5.0 - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of ophthalmology. To a very good extent, he mastered the skills of collecting medical history, diagnostic tests

4.5 - the student actively participates in classes, has acquired theoretical and practical knowledge in the field of ophthalmology at a very good level. He successfully mastered the skills of collecting medical history, diagnostic tests.

4.0 - the student actively participates in the classes, is improved, has acquired theoretical and practical knowledge in the field of ophthalmology to a good degree. He mastered the skill of collecting medical history and diagnostic tests

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the problem in the field of ophthalmology discussed. He sufficiently mastered the skills of collecting medical history, diagnostic examination

3.0 - the student participates in the classes, sufficiently acquired theoretical and practical knowledge in the field of ophthalmology. He mastered the skills of collecting medical history, diagnostic testing, however, it is often corrected.

2.0 - the student passively participates in classes, the statements are incorrectly substantive, theoretical and practical knowledge in the field of ophthalmology is not sufficient. He has not mastered the skills of collecting medical history, diagnostic tests, and frequently made mistakes.

#### 5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	Hours / student work
Hours of classes according to plan with the teacher	30
Preparation for classes	10
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	5
Participation in colloquia	1
Other (e-learning)	-
SUM OF HOURS	48
TOTAL NUMBER OF ECTS	1

#### 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

#### 6. LITERATURE

##### READING:

1. „Podstawy okulistyki”- pod redakcją H. Niżankowskiej

Acceptance Unit Manager or authorized person